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Water Resources Data for Wyoming Water Year 1980. Volume 2. Green River Basin, Bear River Basin, and Snake River Basin

(U.S.) Geological Survey
Cheyenne, WY

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DEPARTMENT OF THE INTERIOR
March 3, 1849

Water Resources Data for Wyoming

Volume 2. Green River Basin, Bear River Basin, and Snake River Basin

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-80-2

WATER YEAR 1980

Prepared in cooperation with the State of Wyoming
and with other agencies

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INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA 22161

CALENDAR FOR WATER YEAR 1980

1979

OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
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NOVEMBER

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1980

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AUGUST

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31						

SEPTEMBER

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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

Water Resources Data for Wyoming

Volume 2. Green River Basin, Bear River Basin, and Snake River Basin

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WY-80-2

WATER YEAR 1980

Prepared in cooperation with the State of Wyoming
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Doyle G. Frederick, Acting Director

For information on the water program in Wyoming write to
District Chief, Water Resources Division
U.S. Geological Survey
2120 Capitol Avenue
P.O. Box 1125
Cheyenne, Wyoming 82001

1981

PREFACE

This report was prepared by personnel of the Wyoming district of the Water Resources Division of the U.S. Geological Survey under the supervision of William W. Dudley, Jr., District Chief, and Alfred Clebsch, Jr., Regional Hydrologist, Central Region. It was done in cooperation with the State of Wyoming and with other agencies.

This report is one of a series issued by State. General direction for the series is by Philip Cohen, Chief Hydrologist, U.S. Geological Survey, and Robert J. Dingman, Assistant Chief Hydrologist for Scientific Publications and Data Management.

Data for Wyoming are in two volumes as follows:

- Volume 1. Missouri River Basin
- Volume 2. Green River, Bear River, and Snake River Basins

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Water resources data for the 1980 water year for Wyoming consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of wells. Volume 2 of this report contains discharge records for 62 gaging stations; stage and contents for 3 lakes and reservoirs; water quality for 38 gaging stations and 20 ungaged stations; and water levels for 7 observation wells. Also included are 24 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data-collection program, and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Wyoming.

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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

Letter after station name designates type of data: [(d) discharge, (e) elevation, gage height, or contents, (c) chemical, (b) biological, (m) microbiological, (p) pesticides, (t) water temperature, (s) sediment]

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WATER RESOURCES DATA FOR WYOMING, 1980

VOLUME 1: MISSOURI RIVER BASIN
VOLUME 2: GREEN RIVER, BEAR RIVER, AND SNAKE RIVER BASINS

INTRODUCTION

Water resources data for the 1980 water year for Wyoming consists of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This volume contain discharge records for 62 gaging stations; stage and contents for 3 lakes and reservoirs, water quality for 38 gaging stations, and 20 ungaged stations; and water levels for 7 observation wells. Also included are 24 crest-stage partial-record stations. In Volume 1 (Missouri River basin) locations of gaging stations and peak-flow partial-record stations are shown in figures 4-6, and locations of observation wells are shown in figures 7-9. In Volume 2 (Green River, Bear River, and Snake River basins) locations of gaging stations and peak-flow partial-record stations are shown in figures 4 and 5, and locations of observation wells are shown in figure 6. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Wyoming.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report WY-80-2." Water-Data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of Wyoming have had cooperative agreements for the systematic collection of streamflow records since 1895, for ground-water levels since 1940, and for water-quality records since 1946. Some records have been collected and computed by contractors in accordance with U.S. Geological Survey specifications and under Geological Survey quality control. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Wyoming State Engineer, George L. Christopulos

Wyoming Department of Agriculture, Larry J. Bourret, Commissioner of Agriculture

Wyoming Highway Department, Leno H. Menghini, Superintendent and Chief Engineer

Wyoming Department of Environmental Quality, Robert E. Sundin, Director

Wyoming Department of Economic Planning and Development, Myron W. Goodson, Chief of Water Development

Wyoming Game and Fish Department, Earl M. Thomas, Director

City of Cheyenne, Board of Public Utilities, Herman Noe, Director

Assistance in the form of funds and services was given by the Bureau of Land Management, U.S. Department of the Interior, in collecting records for 9 gaging stations, 10 water-quality stations, and 10 sediment stations; by the Environmental Protection Agency for 9 water-quality stations; and by the Water and Power Resources Service, U.S. Department of the Interior for 4 gaging stations and 1 water-quality station, published in this report.

Organizations that supplied data are acknowledged in station descriptions.

HYDROLOGIC CONDITIONS

Streamflow at the beginning of the 1980 water year was near normal at the four index stations. The index stations are Tongue River near Dayton, North Platte River above Seminoe Reservoir near Sinclair, Green River at Warren Bridge near Daniel, and Bear River at Border. Monthly and annual means are compared with the median flows for the index sites in figure 3. The median is computed from the flows for the period 1941-70. The normal trend continued through the first half of the water year for all of the index stations and through the entire year for Green River at Warren Bridge near Daniel. Through the months of May, June, and July, the runoff was deficient for the Tongue River. This was indicitive of the below normal snowpack in the watershed. The snowpacks in the Upper North Platte River and Bear River watersheds was above normal and this is reflected in the above normal runoff for the months of April, May, June, and July. Runoff was near normal for all index sites during the months of August and September.

Reservoir storage in the Yellowstone River basin increased 187,000 acre-feet (231 hm^3) during the year. This includes the Anchor, Bull Lake, Boysen, Buffalo Bill, and Bighorn reservoirs. Storage in Keyhole Reservoir decreased 41,800 acre-feet (51.5 hm^3) with a maximum storage of 149,800 acre-feet (185 hm^3) on April 15-22. In the North Platte River basin, storage in the major reservoirs increased 82,800 acre-feet (102 hm^3). In the Green River basin, the storage contents increased 8,900 acre-feet (11.0 hm^3) in the Fontenelle Reservoir and increased 507,000 acre-feet (625 hm^3) in the Flaming Gorge Reservoir during the water year.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is the primary energy donor in cellular life process. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

> *Total coliform bacteria* are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.
>
> *Fecal coliform bacteria* are bacteria that are present in the intestines or feces of warm blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.
>
> *Fecal streptococcal bacteria* are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Recoverable from bottom material the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters(L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a steam or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment), that passes a given point within a given period of time.

Instantaneous discharge is the discharge at a particular instant of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Dissolved that material in a representative water sample which passes through a 0.45 μm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of matamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (μg/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, μg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.........	0.00024 - 0.004	Sedimentation.
Silt.........	.004 - .062	Sedimentation.
Sand.........	.062 - 2.0	Sedimentation or sieve.
Gravel.......	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respecitively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg C/(m^2.time) for periphyton and macrophytes and mg C/(m^3.time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactivity carbon (carbon 14). The carbon 14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg O_2/(m^2.time) for periphyton and macrophytes and mg O_2/(m^3.time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended, recoverable the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 m membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) **dissolved** and (2) **total recoverable** concentrations of the constituent.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Suspended, total the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 m membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Total the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total, recoverable the ammount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reaction with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lived.

Natural substrates refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lived.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multi-plate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 micrometer filter.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata* is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	*Hexageria*
Species	*Hexagenia limbata*

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual basic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 06630000, which appears just to the left of the station name, includes the 2-digit part number "06" plus the 6-digit downstream order number "630000".

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1 below.

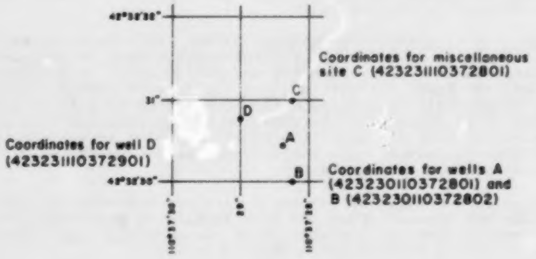
42°32'32"
Coordinates for miscellaneous site C (423231110372801)
31"
C
D
Coordinates for well D (423231110372901)
A
B
42°32'30"
Coordinates for wells A (423230110372801) and B (423230110372802)

Figure 1.—System for numbering wells and miscellaneous sites (latitude and longitude).

In order to compare data for wells in other publications, such as the county ground-water studies, the wells in this report are also numbered according to a system based on the location in the public land classification of the U.S. Bureau of Land Management. The system is illustrated in figure 2. The first numeral denotes the township north of a base line, the second numeral denotes the range west of the fifth principal meridian, and the third numeral denotes the section in which the well is located. The letters A, B, C, and D designate, respectively, the northeast, northwest, southwest, and southeast quarter section, quarter-quarter section, and quarter-quarter-quarter section (10-acre or 4-hectare tract). For example, well 26N-063W-32CDA is in the NE¼SE¼SW¼ sec.32, T.26 N., R.63 W. Consecutive terminal numbers are added if more than one well is recorded within a 10-acre tract.

For a small irregularly-shaped area in west central Wyoming, the well numbers are based on the Wind River Meridian and Base Line system. The uppercase letter that begins the number designates the quadrant of the system. The quadrants are lettered A, B, C, and D in a counterclockwise direction beginning with A in the northeast quadrant. Otherwise, the well numbers are the same as given in the preceding paragraph.

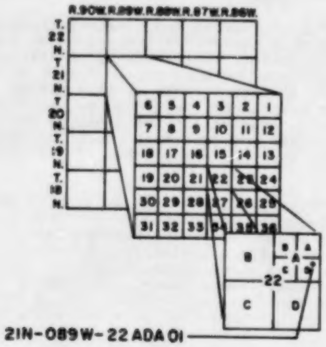

Figure 2.—System for numbering wells and miscellaneous sites (township and range).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard text-books, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum, and condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS".

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good", within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of discharge collected by agencies other than the Geological Survey

The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records available at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on the following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small daily temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of quantities of suspended sediment, records for the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic network of observation wells are published herein. This basic network contains observation wells so located that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figures 1 and 2.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either National Geodetic Vertical Datum of 1929 or land-surface datum (lsd). National Geodetic Vertical Datum of 1929 is explained in the Definition of Terms paragraph. Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above National Geodetic Vertical Datum of 1929 is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens.Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

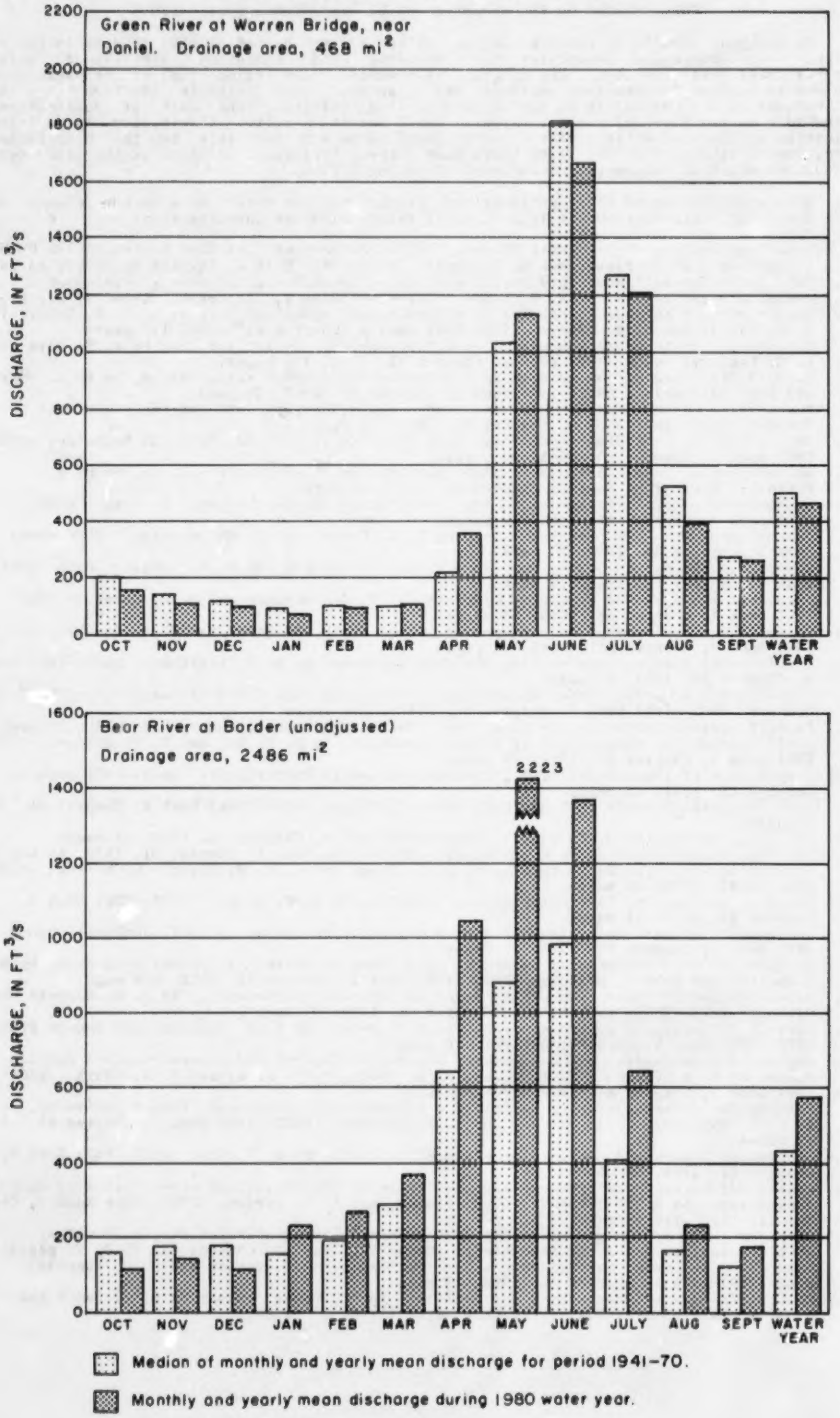

Figure 3.—Discharge during 1980 water year compared with median discharge for period 1941-70 for two representative gaging stations.

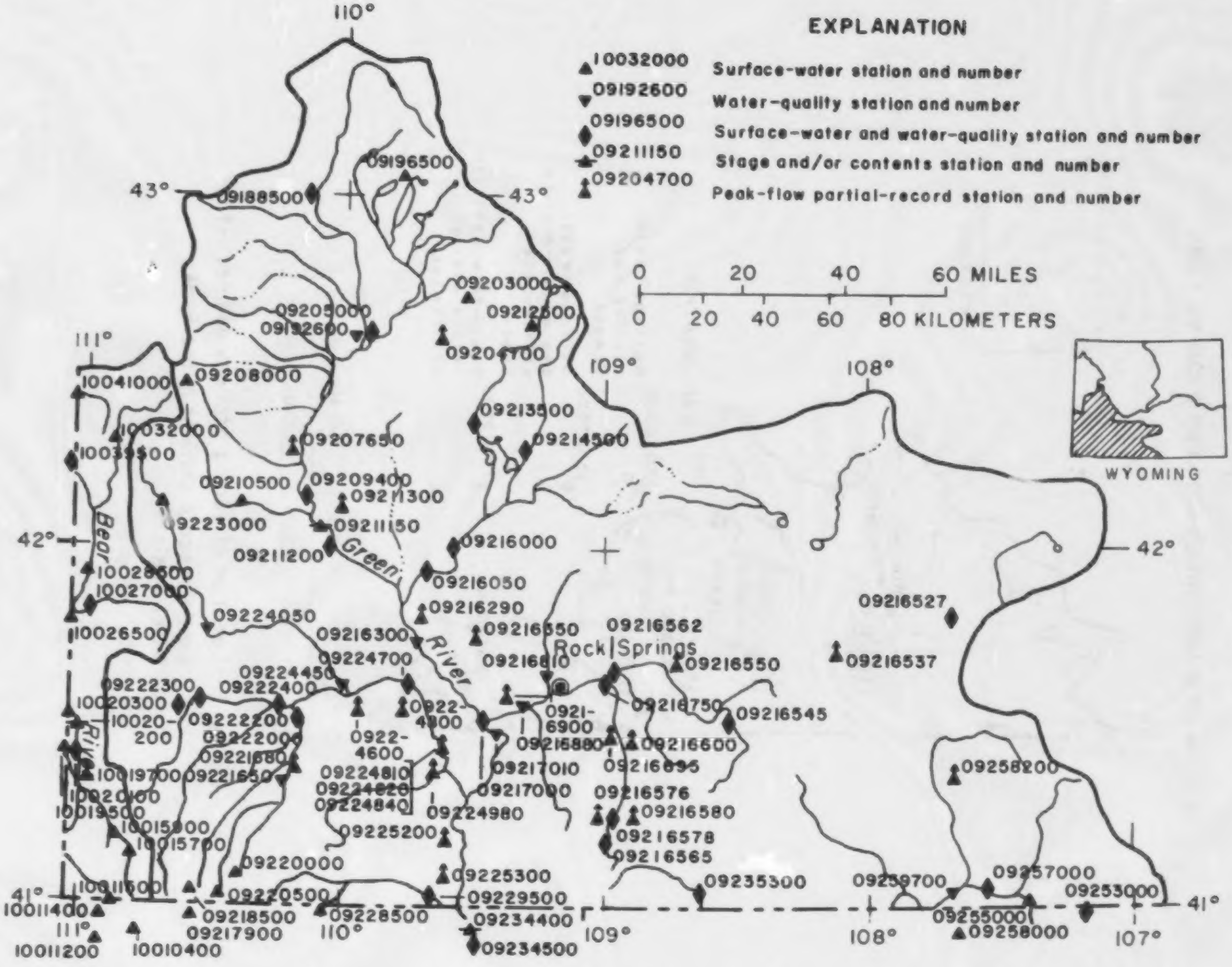

Figure 4.—Location of gaging stations and peak-flow partial-record stations in the Green River and Bear River basins.

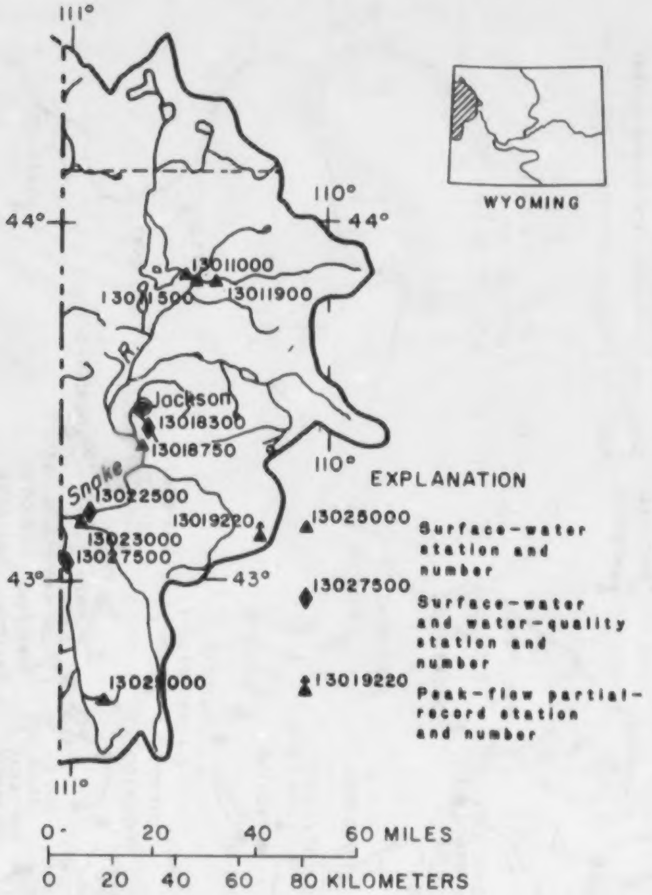

Figure 5.—Location of gaging stations and peak-flow partial-record stations in the Snake River basin.

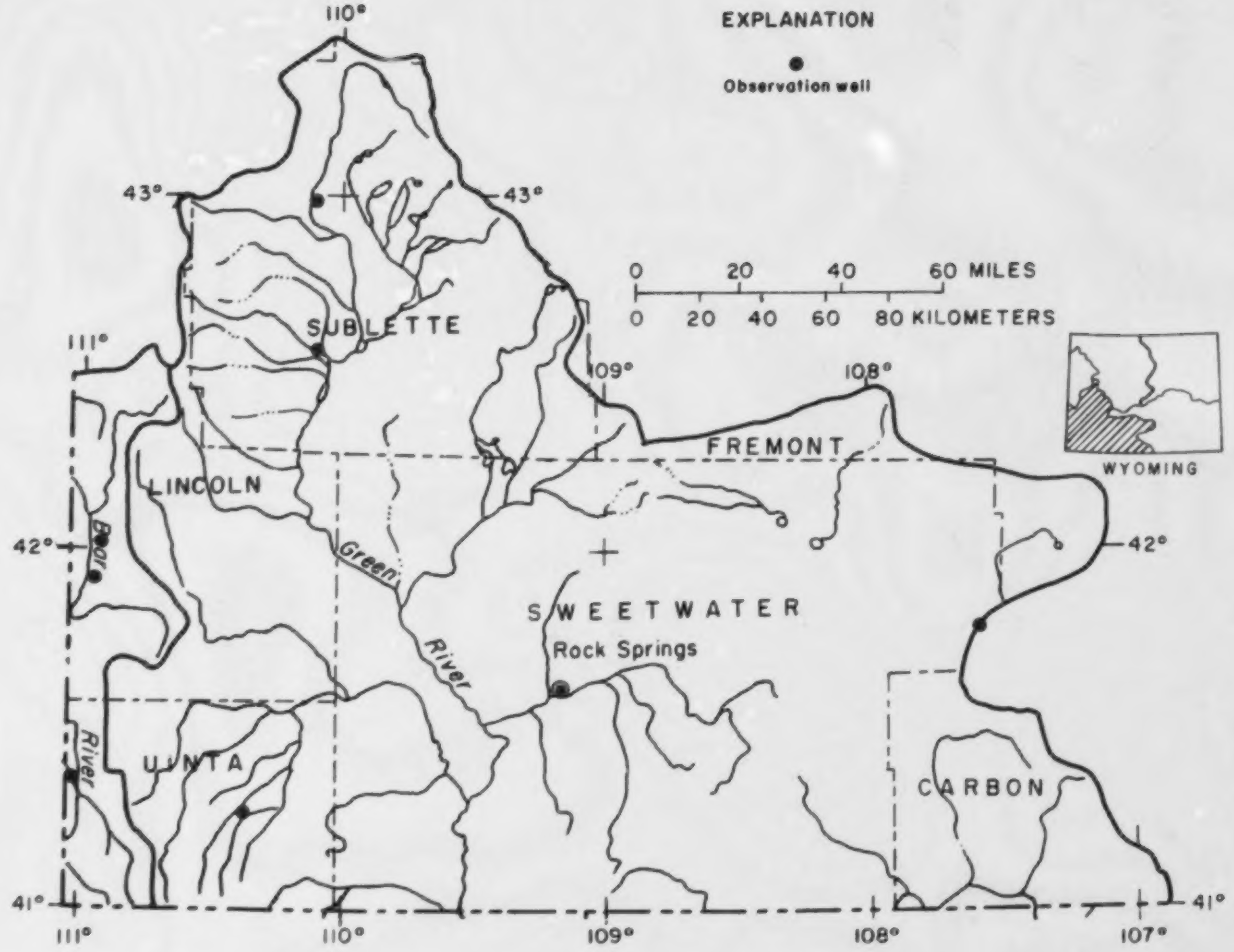

Figure 6.—Location of selected observation wells in the Green River and Bear River basins.

GREEN RIVER BASIN

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY

LOCATION.--Lat 43°01'08", long 110°07'03", in SE¼SE¼NE¼ sec.8, T.35 N., R.111 W., Sublette County, Hydrologic Unit 14040101, on right bank 100 ft (30 m) upstream from bridge on U.S. Highways 187 and 189, 3.4 mi (5.5 km) upstream from Beaver Creek, and 12 mi (19 km) north of Daniel.

DRAINAGE AREA.--468 mi² (1,212 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 979: 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 7,468.09 ft (2,276.274 m), National Geodetic Vertical Datum of 1929. Prior to Oct. 6, 1977, on left bank at same datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 10,200 acres (41.3 km²), of which about 6,100 acres (24.7 km²) are below station.

AVERAGE DISCHARGE.--49 years, 508 ft³/s (14.39 m³/s), 368,000 acre-ft/yr (454 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,840 ft³/s (137 m³/s) June 9, 1972, gage height, 5.77 ft (1.759 m); minimum recorded, 31 ft³/s (0.88 m³/s) Nov. 26, 1933, gage height, 0.70 ft (0.213 m), from rating curve extended below 120 ft³/s (3.40 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,640 ft³/s (74.8 m³/s) May 24, gage height, 4.56 ft (1.390 m); minimum daily, 70 ft³/s (1.98 m³/s) Jan. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	105	110	78	85	118	112	800	900	1580	642	299
2	173	93	115	83	94	115	105	790	892	1940	629	290
3	164	89	120	87	100	112	108	800	1140	2290	600	278
4	159	91	119	89	97	107	112	840	1110	2290	570	259
5	157	95	125	85	95	102	118	870	1060	2040	522	241
6	154	98	125	82	92	106	117	860	1070	1770	477	233
7	152	100	123	80	91	108	112	950	1100	1590	435	228
8	147	103	119	78	89	106	115	1050	1000	1510	415	232
9	144	100	118	77	89	104	118	1150	1060	1410	415	235
10	144	99	115	78	90	102	115	1100	1280	1370	410	238
11	144	102	114	82	93	100	112	1070	1720	1370	404	250
12	142	115	112	87	96	100	110	1020	2090	1360	380	284
13	139	130	116	91	99	104	112	883	2290	1330	365	310
14	137	137	120	94	101	102	116	795	2350	1250	346	310
15	137	134	125	95	105	100	120	733	2220	1180	346	295
16	142	128	127	94	109	103	125	718	1970	1080	355	285
17	147	122	125	92	112	106	129	811	1630	961	365	275
18	147	118	120	90	113	109	133	892	1540	909	380	265
19	157	122	115	87	116	111	138	842	1740	935	384	265
20	204	128	110	85	115	113	148	926	1930	952	375	270
21	185	128	105	82	114	116	170	1230	2070	969	355	265
22	167	122	100	80	112	118	236	1660	2150	883	333	265
23	162	119	97	78	110	119	350	2210	2190	803	311	260
24	157	115	95	77	108	120	500	2580	2190	780	291	265
25	157	112	91	75	106	119	640	2400	2140	756	279	260
26	154	109	87	72	108	118	670	1780	2010	733	291	255
27	152	103	83	70	112	122	642	1400	2000	718	314	250
28	147	99	80	71	115	124	725	1160	1940	669	320	240
29	144	101	77	73	118	122	790	1010	1740	636	327	235
30	125	105	75	76	---	116	800	952	1510	609	311	230
31	115	---	75	80	---	114	---	918	---	629	298	---
TOTAL	4737	3322	3338	2548	2984	3436	7898	35200	50032	37302	12245	7867
MEAN	153	111	108	82.2	103	111	263	1135	1668	1203	395	262
MAX	204	137	127	95	118	124	800	2580	2350	2290	642	310
MIN	115	89	75	70	85	100	105	718	892	609	279	228
AC-FT	9400	6590	6620	5050	5920	6820	15670	69820	99240	73990	24290	15600

CAL YR 1979 TOTAL 140648 MEAN 385 MAX 2280 MIN 75 AC-FT 279000
WTR YR 1980 TOTAL 170909 MEAN 467 MAX 2580 MIN 70 AC-FT 339000

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-64, 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT 24...	1400	--	157	440	8.1	7.0	2	9.8	>1	230
NOV 28...	1400	99	--	580	7.8	.0	2	10.0	K4	320
DEC 18...	1430	120	--	600	7.8	.0	2	10.6	<1	310
JAN 22...	1500	--	80	520	7.8	.0	1	9.3	K2	290
FEB 27...	1500	--	112	640	7.7	.5	1	9.8	K2	340
MAR 19...	1315	111	--	680	7.5	.0	1	11.0	<1	310
APR 22...	1330	236	--	440	7.9	.0	--	10.0	K2	220
MAY 12...	1800	--	985	240	8.2	4.0	4	10.4	K6	150
JUN 10...	1420	--	1360	260	7.7	14.0	--	8.3	57	130
JUL 07...	2050	--	1550	160	8.2	12.0	4	9.0	K6	62
AUG 05...	1015	--	534	300	7.5	12.0	2	9.1	K15	88
SEP 02...	1845	--	283	290	8.4	15.0	2	7.8	K4	140

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT 24...	130	66	15	3.9	.1	5.5	1.6	97	130
NOV 28...	200	92	21	4.6	.1	6.1	1.5	120	210
DEC 18...	200	90	20	4.1	.1	5.8	1.7	110	200
JAN 22...	170	84	19	3.8	.1	5.3	1.5	120	180
FEB 27...	220	100	21	3.2	.1	4.6	1.4	120	190
MAR 19...	190	91	20	4.0	.1	--	1.3	120	190
APR 22...	120	64	14	3.4	.1	--	1.5	93	120
MAY 12...	52	42	10	2.7	.1	--	1.0	94	55
JUN 10...	51	37	9.6	2.7	.1	--	.8	81	40
JUL 07...	8	18	4.1	1.5	.1	--	.6	54	22
AUG 05...	55	26	5.6	1.8	.1	--	.7	33	--
SEP 02...	70	40	8.8	2.0	.1	--	.8	66	77

09188500 GREEN RIVER AT WARREN BRIDGE, NEAR DANIEL, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)
OCT 24...	1.5	.2	4.9	282	.38	120	.05	.010	.03
NOV 28...	1.3	.4	7.1	411	.56	110	.12	.000	.00
DEC 18...	1.5	.4	6.8	391	.53	127	.09	.010	.03
JAN 22...	1.4	.4	7.2	370	.50	79.9	.12	.020	.06
FEB 27...	.8	.3	7.4	397	.54	120	.15	.020	.06
MAR 19...	1.0	.3	7.4	388	.53	116	.15	.010	.03
APR 22...	.8	.3	5.8	266	.36	170	.03	.070	.21
MAY 12...	.7	.2	5.0	173	.24	460	.05	.020	.06
JUN 10...	1.0	.2	4.6	145	.20	532	.19	.060	.18
JUL 07...	.3	.2	2.6	82	.11	343	.00	.030	.09
AUG 05...	--	--	2.3	--	--	--	--	.040	.12
SEP 02...	1.8	.2	2.5	173	.24	132	.08	.010	.03

09192600 GREEN RIVER NEAR BIG PINEY, WY

LOCATION.--Lat 42°34'14", long 109°56'58", in NE¼NE¼NE¼ sec.21, T.30 N., R.110 W., Sublette County, Hydrologic Unit 14040101, at bridge on State Secondary Highway 1801, 1.9 mi (3.1 km) upstream from New Fork River, 8.4 mi (13.5 km) northeast of Big Piney, and 16.2 mi (26.1 km) southwest of Boulder.

DRAINAGE AREA.--1,260 mi^2 (3,260 km^2), approximately.

PERIOD OF RECORD.--Water years 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)
OCT 02...	0935	199	450	8.4	10.0	200	93	58	13	12	.4	1.8
NOV 06...	1240	72	580	8.9	1.0	240	92	70	16	17	.5	2.0
DEC 05...	1055	140	550	8.2	.0	300	140	84	21	27	.7	2.8
JAN 04...	1600	104	600	8.3	.0	290	140	86	17	6.0	.2	1.8
FEB 06...	1615	163	650	8.3	.5	280	120	76	21	6.5	.2	3.0
MAR 20...	1340	152	570	8.1	.0	280	91	81	19	6.5	.2	.8
APR 10...	1340	238	540	7.9	.0	260	88	72	19	9.0	.2	1.3
MAY 12...	1330	2100	360	7.7	5.0	190	34	52	16	15	.5	2.1
JUN 11...	2030	1260	360	7.6	16.0	190	42	48	18	7.3	.2	1.8
JUL 09...	0830	1120	340	8.1	16.5	140	17	37	11	7.5	.3	1.0
AUG 05...	1410	293	310	7.8	18.0	120	38	38	6.6	4.0	.2	.2
SEP 03...	1115	177	330	8.4	15.0	180	82	47	14	3.3	.1	1.1

DATE	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT 02...	130	0	110	97	4.3	.3	3.3	255	.35	137	.03	.020
NOV 06...	180	0	150	110	4.3	.3	4.2	314	.43	61.0	.00	.010
DEC 05...	200	0	160	120	3.5	.4	6.0	363	.49	137	.00	.000
JAN 04...	180	0	150	140	1.5	.4	6.6	349	.47	98.0	.06	.020
FEB 06...	190	0	160	130	4.3	.4	8.8	347	.47	153	.73	.000
MAR 20...	230	0	190	95	6.5	.3	6.2	325	.44	133	.03	.010
APR 10...	210	0	170	110	2.2	.4	7.4	320	.44	206	.00	.010
MAY 12...	190	0	160	58	2.5	.4	7.7	250	.34	1420	.06	.120
JUN 11...	180	0	150	53	1.2	.5	7.1	230	.31	782	.16	.080
JUL 09...	150	0	120	26	1.5	.4	4.7	160	.22	484	.00	.030
AUG 05...	100	0	82	41	.6	.2	3.1	140	.19	111	.00	.010
SEP 03...	120	0	98	74	.8	.3	4.4	200	.27	95.6	.00	.020

09196500 PINE CREEK ABOVE FREMONT LAKE, WY

LOCATION.--Lat 43°01'50", long 109°46'10", in S½ sec.5, T.35 N., R.108 W., Sublette County, Hydrologic Unit 14040102, Bridger National Forest, on right bank 0.5 mi (0.8 km) upstream from Fremont Lake, 0.5 mi (0.8 km) downstream from Fremont Creek, and 12 mi (19 km) northeast of Pinedale.

DRAINAGE AREA.--75.8 mi^2 (196.3 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year.

REVISED RECORDS.--WSP 1443: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,540 ft (2,298 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--26 years, 177 ft^3/s (5.013 m^3/s), 128,200 acre-ft/yr (158 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft^3/s (72.2 m^3/s) June 16, 1959, gage height, 7.15 ft (2.179 m); minimum daily, 3.3 ft^3/s (0.093 m^3/s) Apr. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft^3/s (22.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 23	1330	1,300	36.8	5.72	1.743	June 23	0330	*1,500	42.5	5.99	1.826
June 12	0430	1,440	40.8	5.91	1.801	July 1	2330	1,330	37.7	5.77	1.759

Minimum daily discharge, 6.8 ft^3/s (0.19 m^3/s) Jan. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	23	11	7.5	9.0	12	11	231	238	1170	155	52
2	26	22	12	7.2	12	12	10	238	232	1170	152	51
3	26	21	12	7.0	14	12	10	256	227	1030	147	50
4	25	20	11	7.5	13	13	11	293	216	958	137	48
5	25	20	12	7.2	12	13	11	309	225	789	131	46
6	25	19	11	7.5	12	13	11	332	228	735	122	45
7	24	18	11	7.5	11	12	11	393	226	674	114	43
8	23	17	11	7.2	10	13	11	437	260	586	107	43
9	22	17	11	7.0	9.5	14	12	461	388	570	100	42
10	21	16	10	7.0	9.0	14	12	407	693	592	93	41
11	20	17	10	8.0	9.5	14	12	352	1110	598	90	42
12	19	16	10	9.0	10	14	12	297	1350	549	87	48
13	18	16	10	11	11	13	12	259	1270	495	85	63
14	17	15	10	12	11	14	12	233	1220	444	82	66
15	16	15	9.8	12	12	14	13	216	1030	381	82	68
16	17	14	9.8	12	12	13	14	210	715	335	82	71
17	16	14	9.3	11	12	13	15	211	704	314	79	73
18	16	14	8.9	10	12	15	17	203	969	311	77	74
19	21	14	8.7	9.5	13	13	22	200	1060	346	77	72
20	21	13	8.5	9.0	13	13	32	239	1270	406	76	71
21	20	13	8.2	9.0	14	13	45	418	1260	346	73	69
22	20	13	7.7	9.0	14	13	60	770	1220	281	70	65
23	22	12	7.4	9.0	13	12	80	1230	1360	252	68	61
24	23	12	7.5	9.5	12	12	100	977	1230	234	64	59
25	24	12	7.5	9.0	12	12	120	688	1220	224	61	55
26	25	11	7.5	8.0	12	12	138	511	1250	212	62	52
27	25	11	7.5	7.5	13	12	146	387	1190	196	57	49
28	26	11	7.2	7.2	13	13	165	316	907	182	55	46
29	25	10	7.0	7.5	13	13	188	281	755	171	52	44
30	24	10	7.0	6.8	---	11	217	254	724	163	51	43
31	23	---	7.7	7.0	---	11	---	245	---	157	52	---
TOTAL	682	456	289.2	265.6	343.0	398	1530	11854	24747	14871	2740	1652
MEAN	22.0	15.2	9.33	8.57	11.8	12.8	51.0	382	825	480	88.4	55.1
MAX	27	23	12	12	14	15	217	1230	1360	1170	155	74
MIN	16	10	7.0	6.8	9.0	11	10	200	216	157	51	41
AC-FT	1350	904	574	527	680	789	3030	23510	49090	29500	5430	3280

CAL YR 1979 TOTAL 50655.2 MEAN 139 MAX 1330 MIN 7.0 AC-FT 100500
WTR YR 1980 TOTAL 59827.8 MEAN 163 MAX 1360 MIN 6.8 AC-FT 118700

09203000 EAST FORK RIVER NEAR BIG SANDY, WY

LOCATION.--Lat 42°40', long 109°25', in sec.7, T.31 N., R.105 W., Sublette County, Hydrologic Unit 14040102, on left bank 1.0 mi (1.6 km) downstream from Jim Creek and 4.0 mi (6.4 km) northeast of Big Sandy.

DRAINAGE AREA.--79.2 mi^2 (205 km^2).

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1967, published as East Fork near Big Sandy. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (2,377 m), by barometer.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--42 years, 103 ft^3/s (2.917 m^3/s), 74,620 acre-ft/yr (92.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,790 ft^3/s (50.7 m^3/s) June 11, 1965, gage height, 7.16 ft (2.182 m), from rating curve extended above 1,200 ft^3/s (34.0 m^3/s) on basis of slope-area measurement at gage height 6.88 ft (2.097 m); minimum observed, 1.2 ft^3/s (0.034 m^3/s) Jan. 4, 1940, Jan. 25, 1977 (discharge measurements).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft^3/s (19.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 23	0600	1,100	31.2	6.07	1.850	June 20	0700	1,150	32.6	6.15	1.875
June 12	0400	*1,390	39.4	6.52	1.987	July 1	0830	712	20.2	5.39	1.643

Minimum daily discharge, 3.5 ft^3/s (0.10 m^3/s) Jan. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	11	9.0	3.8	7.0	8.5	8.5	199	269	625	51	16
2	8.5	11	9.5	3.9	9.0	8.0	8.0	217	281	582	47	15
3	8.4	11	9.5	4.0	12	8.5	8.5	208	269	539	42	13
4	7.5	12	9.5	4.1	11	8.5	9.0	251	274	518	38	12
5	7.5	12	9.0	4.3	11	8.5	10	282	331	359	34	11
6	7.3	12	9.0	4.1	11	8.0	10	304	378	320	30	10
7	7.2	12	9.5	4.0	10	8.0	9.5	334	390	277	28	10
8	6.4	12	10	4.0	8.0	8.0	10	380	503	247	27	10
9	6.3	12	11	4.2	7.0	8.5	11	393	738	250	27	10
10	6.2	12	11	4.0	7.5	8.5	12	341	951	244	25	10
11	6.0	12	9.0	4.0	7.8	8.0	12	282	1120	243	23	13
12	6.1	13	7.5	4.3	8.2	7.8	12	248	1230	206	21	20
13	6.4	13	7.0	4.8	8.6	8.2	13	211	1060	180	19	30
14	5.8	13	7.3	5.0	9.0	8.5	14	195	951	181	18	32
15	6.0	13	7.6	5.0	9.5	8.5	15	180	775	164	19	27
16	7.5	12	8.0	5.0	9.0	7.6	16	178	509	148	24	24
17	8.8	12	7.0	4.7	10	8.0	17	193	599	140	32	21
18	10	12	6.5	4.2	11	8.2	18	199	825	132	29	19
19	17	11	6.5	4.0	11	8.4	21	218	756	127	24	18
20	18	11	7.0	4.0	10	8.7	30	296	955	124	25	17
21	22	11	7.0	4.0	9.0	9.0	40	508	829	112	24	16
22	25	10	6.3	4.0	8.0	9.2	60	773	723	102	20	16
23	22	10	5.8	4.2	7.5	9.6	100	1060	749	95	19	15
24	20	10	5.4	4.3	7.5	10	170	893	661	90	19	16
25	18	10	5.0	4.0	7.5	9.8	140	556	632	83	18	15
26	19	9.0	4.5	3.8	8.0	9.6	100	412	620	75	22	15
27	16	9.0	4.0	3.7	8.5	9.4	100	338	589	69	22	14
28	16	9.0	3.7	3.6	8.5	10	109	311	405	63	20	13
29	14	8.5	3.7	3.8	8.5	10	133	301	361	59	18	12
30	12	8.5	3.7	3.5	---	9.6	162	278	441	56	17	12
31	11	---	3.7	5.0	---	9.0	---	281	---	54	17	---
TOTAL	361.5	334.0	223.2	129.3	260.6	270.1	1378.5	10820	19174	6464	799	482
MEAN	11.7	11.1	7.20	4.17	8.99	8.71	46.0	349	639	209	25.8	16.1
MAX	25	13	11	5.0	12	10	170	1060	1230	625	51	32
MIN	5.8	8.5	3.7	3.5	7.0	7.6	8.0	178	269	54	17	10
AC-FT	717	662	443	256	517	536	2730	21460	38030	12820	1580	956

CAL YR 1979 TOTAL 32221.7 MEAN 88.3 MAX 1170 MIN 3.7 AC-FT 63910
WTR YR 1980 TOTAL 40696.2 MEAN 111 MAX 1230 MIN 3.5 AC-FT 80720

09205000 NEW FORK RIVER NEAR BIG PINEY, WY

LOCATION.--Lat 42°34'02", long 109°55'46", in SE¼NE¼NE¼ sec.22, T.30 N., R.110 W., Sublette County, Hydrologic Unit 14040102, on right bank 35 ft (11 m) downstream from old highway bridge, 3.4 mi (5.5 km) upstream from mouth, and 9.5 mi (15.3 km) northeast of Big Piney.

DRAINAGE AREA.--1,230 mi^2 (3,190 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs, power development, and diversions for irrigation of about 62,100 acres (251 km^2) above station.

AVERAGE DISCHARGE.--26 years, 722 ft^3/s (20.45 m^3/s), 523,100 acre-ft/yr (645 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,170 ft^3/s (260 m^3/s) June 10, 1972, gage height, 8.15 ft (2.484 m); minimum daily, 90 ft^3/s (2.55 m^3/s) Jan. 13, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,950 ft^3/s (140 m^3/s) June 14, 15, gage height, 5.81 ft (1.771 m); minimum daily, 135 ft^3/s (3.82 m^3/s) Jan. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	294	200	145	185	220	200	607	1290	2660	633	342
2	329	272	205	150	190	225	195	672	1200	3130	602	326
3	325	288	215	160	200	230	200	738	1140	3510	570	318
4	322	283	220	165	200	220	205	766	1090	3640	585	323
5	317	288	225	170	190	210	210	861	1020	3440	572	336
6	306	293	235	160	185	205	200	911	1030	2920	545	341
7	321	287	240	155	180	210	205	968	1050	2510	530	342
8	330	284	240	150	180	215	215	1080	1080	2270	503	358
9	370	274	235	150	175	215	210	1290	1250	2130	473	358
10	387	260	230	145	175	210	215	1360	1670	2010	443	359
11	358	313	225	145	175	205	225	1360	2510	1840	421	364
12	353	253	220	155	180	200	240	1320	3380	1670	383	394
13	347	286	220	160	185	200	250	1270	4380	1650	382	405
14	346	304	230	170	190	205	234	1150	4860	1590	375	378
15	343	299	240	175	195	215	249	1030	4900	1530	379	349
16	348	281	250	180	200	205	282	1080	4630	1420	458	342
17	341	275	250	185	205	200	313	1090	3910	1340	517	327
18	341	315	240	185	210	205	350	1100	3490	1420	458	327
19	346	268	230	180	215	210	430	1210	3460	1300	430	325
20	353	261	225	170	215	220	559	1150	3620	1260	403	325
21	350	277	215	165	220	220	739	1220	4230	1350	363	320
22	333	266	210	160	215	220	784	1550	4480	1290	348	320
23	352	266	200	155	210	225	803	2240	4410	1170	342	315
24	353	240	190	150	205	230	845	3570	4300	1090	330	320
25	347	230	185	145	200	230	736	4300	4140	1090	321	325
26	346	220	175	140	205	225	596	3840	3980	1040	337	320
27	335	210	170	135	210	220	555	3030	3790	1010	357	310
28	329	205	165	140	215	215	540	2340	3680	855	344	305
29	328	205	160	150	220	220	541	1900	3370	784	350	300
30	322	200	155	160	---	215	583	1680	3090	717	349	300
31	318	---	150	175	---	205	---	1410	---	667	353	---
TOTAL	10531	7997	6550	4930	5730	6650	11909	48093	90430	54303	13456	10074
MEAN	340	267	211	159	198	215	397	1551	3014	1752	434	336
MAX	387	315	250	185	220	230	845	4300	4900	3640	633	405
MIN	306	200	150	135	175	200	195	607	1020	667	321	300
AC-FT	20890	15860	12990	9780	11370	13190	23620	95390	179400	107700	26690	19980

CAL YR 1979 TOTAL 228742 MEAN 627 MAX 5410 MIN 150 AC-FT 453700
WTR YR 1980 TOTAL 270653 MEAN 739 MAX 4900 MIN 135 AC-FT 536800

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1965 to September 1969.
WATER TEMPERATURES: October 1965 to September 1969.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT								
02...	0845	--	329	210	8.0	9.0	89	0
NOV								
05...	1545	--	294	220	8.5	4.5	91	0
DEC								
05...	0850	225	--	220	8.3	.0	96	0
JAN								
04...	1305	165	--	340	8.0	.0	92	0
FEB								
07...	1015	180	--	200	8.0	.0	85	0
MAR								
20...	1050	220	--	210	8.0	.0	90	0
APR								
10...	1205	215	--	260	7.8	.0	88	0
MAY								
12...	1300	--	1330	120	7.5	5.5	40	5
JUN								
11...	1930	--	2870	65	7.4	13.0	34	5
JUL								
09...	1130	--	2170	120	7.4	17.0	50	0
AUG								
05...	1600	--	538	180	8.4	19.0	73	0
SEP								
03...	1000	--	323	200	8.1	12.5	86	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
02...	27	5.2	11	.5	2.0	110	0	90	14
NOV									
05...	26	6.4	16	.7	1.8	120	0	98	20
DEC									
05...	28	6.2	10	.4	2.5	120	0	98	9.9
JAN									
04...	28	5.3	10	.5	2.0	120	0	98	14
FEB									
07...	23	6.7	9.0	.4	1.8	110	0	90	8.2
MAR									
20...	27	5.6	7.9	.4	.8	120	0	98	8.2
APR									
10...	15	12	9.7	.5	1.5	120	0	98	9.9
MAY									
12...	14	1.5	6.0	.4	1.7	43	0	35	9.9
JUN									
11...	8.0	3.4	4.5	.3	2.0	35	0	29	9.9
JUL									
09...	13	4.4	8.0	.5	1.0	67	0	55	8.2
AUG									
05...	22	4.3	8.0	.4	1.1	95	0	78	8.3
SEP									
03...	23	7.3	6.0	.3	1.3	110	0	90	9.9

09205000 NEW FORK RIVER NEAR BIG PINEY, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT 02...	3.4	.2	8.5	127	.17	113	.03	.030
NOV 05...	2.6	.3	8.3	142	.19	113	.10	.000
DEC 05...	4.3	.3	9.6	132	.18	80.2	1.6	.000
JAN 04...	2.2	.2	10	132	.18	58.8	.07	.020
FEB 07...	3.3	.2	11	118	.16	57.3	.07	.020
MAR 20...	5.6	.2	7.2	120	.16	71.3	.05	.020
APR 10...	3.5	.3	8.1	120	.16	69.7	.07	.100
MAY 12...	.9	.1	6.3	62	.08	223	.04	.100
JUN 11...	.5	.0	5.6	51	.07	395	.04	.070
JUL 09...	.9	.3	6.1	75	.10	439	.00	.030
AUG 05...	1.2	.2	7.3	100	.14	145	.00	.000
SEP 03...	1.7	.3	8.0	110	.15	95.9	.00	.010

09208000 LA BARGE CREEK NEAR LA BARGE MEADOWS RANGER STATION, WY

LOCATION.--Lat 42°30'30", long 110°40'10", in SE¼ sec.8, T.29 N., R.116 W., Lincoln County, Hydrologic Unit 14040101, Bridger National Forest, on right bank 0.5 mi (0.8 km) upstream from Crystal Creek, 2.0 mi (3.2 km) southeast of La Barge Meadows ranger station, and 29 mi (47 km) northwest of La Barge.

DRAINAGE AREA.--6.3 mi^2 (16.3 km^2), approximately.

PERIOD OF RECORD.--October 1940 to September 1942, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1313.

GAGE.--Water-stage recorder. Altitude of gage is 8,410 ft (2,563 m), from topographic map. Oct. 1, 1940, to Sept. 30, 1942, at site 300 ft (91 m) upstream at different datum. Oct. 31, 1950, to Aug. 30, 1972, on left bank at present datum.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--32 years, 14.2 ft^3/s (0.402 m^3/s), 10,290 acre-ft/yr (12.7 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 196 ft^3/s (5.55 m^3/s) June 9, 1972, gage height, 5.48 ft (1.670 m); maximum gage height, 7.08 ft (2.158 m) Nov. 26, 1967 (backwater from snow); minimum daily discharge, 1.3 ft^3/s (0.037 m^3/s) Jan. 29 to Feb. 2, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 98 ft^3/s (2.78 m^3/s) May 23, gage height, 4.65 ft (1.417 m), no peak above base of 120 ft^3/s (3.40 m^3/s); maximum gage height, 5.04 ft (1.536 m) Mar. 6 (backwater from ice); minimum daily discharge, 2.8 ft^3/s (0.079 m^3/s) Jan. 6, Mar. 25, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	5.8	3.9	3.7	3.7	4.0	3.0	29	43	41	10	7.1
2	5.9	5.4	3.9	3.5	3.7	4.0	3.0	28	41	38	9.6	6.7
3	4.8	5.1	3.9	3.5	3.7	4.0	3.0	28	41	38	9.2	5.9
4	4.8	5.1	3.8	3.5	3.7	3.8	3.0	30	44	35	8.8	6.2
5	4.8	5.2	3.8	3.7	3.7	3.8	3.0	34	47	33	8.4	6.2
6	4.8	5.2	3.9	2.8	3.9	3.5	3.4	35	48	31	8.8	6.2
7	4.8	5.2	3.9	3.0	4.0	3.5	4.0	39	50	29	8.4	6.2
8	4.8	5.0	3.9	3.0	4.0	3.5	4.5	43	56	28	8.4	6.7
9	4.8	5.0	3.9	3.0	4.0	3.5	4.5	44	65	27	8.0	5.9
10	5.1	4.8	3.9	2.9	4.0	3.5	4.8	38	72	25	8.0	6.2
11	5.1	4.8	3.9	3.0	4.0	3.5	4.5	32	80	24	7.5	9.6
12	5.1	4.6	3.9	3.2	4.0	3.5	4.5	28	84	23	7.1	9.2
13	5.1	4.6	3.9	3.5	4.0	3.5	4.5	26	81	22	7.1	8.0
14	5.1	4.5	3.9	3.6	4.0	3.5	5.1	27	75	20	7.1	6.7
15	5.5	4.5	3.9	3.7	4.0	3.5	5.5	27	65	20	9.6	6.2
16	7.1	4.5	3.9	3.7	4.0	3.4	5.1	28	59	16	8.8	5.9
17	5.9	4.5	3.9	3.7	4.0	3.3	5.9	29	58	17	8.4	6.2
18	6.7	4.5	3.9	3.7	4.0	3.3	6.4	34	61	16	7.5	6.2
19	11	4.5	3.9	3.7	4.0	3.3	7.2	41	66	17	7.5	6.2
20	8.8	4.5	3.9	3.7	4.0	3.2	7.8	49	68	15	8.0	6.2
21	7.5	4.5	3.9	3.7	4.0	3.1	8.5	60	66	14	7.1	6.2
22	7.1	4.5	3.9	3.7	4.0	3.0	9.2	66	64	14	6.7	6.2
23	6.2	4.5	3.9	3.7	4.0	3.0	12	83	62	13	6.2	6.2
24	6.7	4.2	3.9	3.7	4.0	2.9	13	70	61	13	6.2	6.2
25	7.1	4.0	3.9	3.5	4.0	2.8	15	54	56	13	6.7	6.2
26	7.1	3.9	3.9	3.5	4.0	2.8	18	45	53	12	9.5	6.2
27	6.2	3.8	3.9	3.5	4.0	3.0	20	41	49	12	7.6	5.9
28	6.2	3.7	3.7	3.5	4.0	3.0	22	39	45	11	7.5	5.9
29	6.2	3.7	3.7	3.5	3.8	3.0	24	40	42	11	6.7	5.9
30	6.2	3.9	3.7	3.5	---	3.0	28	41	42	11	7.1	5.9
31	5.9	---	3.7	3.5	---	3.0	---	42	---	11	8.0	---
TOTAL	189.1	138.0	119.9	107.4	114.2	103.7	262.4	1250	1744	650	245.5	194.5
MEAN	6.10	4.60	3.87	3.46	3.94	3.35	8.75	40.3	58.1	21.0	7.92	6.48
MAX	11	5.8	3.9	3.7	4.0	4.0	28	83	84	41	10	9.6
MIN	4.8	3.7	3.7	2.8	3.7	2.8	3.0	26	41	11	6.2	5.9
AC-FT	375	274	238	213	227	206	520	2480	3460	1290	487	386

CAL YR 1979 TOTAL 4237.0 MEAN 11.6 MAX 104 MIN 2.6 AC-FT 8400
WTR YR 1980 TOTAL 5118.7 MEAN 14.0 MAX 84 MIN 2.8 AC-FT 10150

09209400 GREEN RIVER NEAR LA BARGE, WY

LOCATION.--Lat 42°11'34", long 110°09'45", in SE¼SE¼NW¼ sec.33, T.26 N., R.112 W., Lincoln County, Hydrologic Unit 14040101, on right bank 1.7 mi (2.7 km) upstream from high-water line of Fontenelle Reservoir at elevation 6,513 ft (1,985.2 m), 4.0 mi (6.4 km) upstream from Muddy Creek, and 5.0 mi (8.0 km) south of La Barge.

DRAINAGE AREA.--3,910 mi^2 (10,130 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Records are equivalent to those published August 1946 to March 1965 as Green River near Fontenelle (sta 09209500).

GAGE.--Water-stage recorder. Altitude of gage is 6,520 ft (1,987 m), from topographic map.

REMARKS.--Records good except those for winter period and period of no gage-height record, Jan. 28 to Mar. 13, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 198,000 acres (801 km^2) above station.

AVERAGE DISCHARGE.--34 years (water years 1947-80), 1,636 ft^3/s (46.33 m^3/s) 1,185,000 acre-ft/yr (1,461 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,000 ft^3/s (510 m^3/s) June 11, 1972, gage height, 10.34 ft (3.152 m); minimum daily, 188 ft^3/s (5.32 m^3/s) May 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,930 ft^3/s (281 m^3/s) May 26, gage height, 8.56 ft (2.609 m); minimum daily, 320 ft^3/s (9.06 m^3/s) Jan. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	544	580	480	340	425	520	490	3650	3640	4950	1630	852
2	546	599	490	340	445	510	520	3600	3470	5190	1590	835
3	530	601	500	360	460	530	550	3620	3370	5930	1510	786
4	574	610	510	375	465	500	580	3560	3830	6520	1450	757
5	562	593	530	385	450	470	640	3700	3470	6420	1470	747
6	553	599	540	370	440	440	680	3920	3180	5720	1390	734
7	547	591	560	360	420	460	710	3830	3150	4970	1320	727
8	562	585	560	350	420	480	760	4290	3090	4550	1240	737
9	564	576	550	360	410	460	810	4900	3000	4350	1170	742
10	630	617	540	340	400	450	850	5270	3240	4040	1130	777
11	612	626	530	340	400	430	880	5080	3990	3680	1100	798
12	587	654	520	360	410	420	910	4950	5240	3410	1050	840
13	580	582	510	380	420	430	920	4680	6370	3270	1020	887
14	576	605	530	395	430	450	970	4110	7390	3180	1000	896
15	569	633	560	410	440	460	1000	3490	7700	3030	993	871
16	575	600	580	420	450	450	1150	3330	7660	2890	1090	831
17	588	590	590	425	465	430	1300	3590	6890	2770	1180	807
18	583	580	570	410	475	440	1500	4010	6020	2650	1150	775
19	601	570	550	400	485	450	1700	4330	5690	2600	1080	751
20	625	550	530	390	495	460	1900	3740	5740	2560	1080	742
21	663	540	490	380	500	470	2130	3500	6290	2580	1030	746
22	678	570	475	370	500	480	2440	3900	6990	2630	983	748
23	648	600	450	350	490	490	2610	5060	7080	2480	936	744
24	657	590	435	360	475	500	3170	7330	6880	2330	898	734
25	664	570	420	350	465	520	3350	9290	6780	2350	826	758
26	653	550	405	330	475	500	3170	9450	6470	2300	863	750
27	642	520	395	320	490	490	3260	7290	6110	2160	939	730
28	632	500	385	335	495	520	3250	5570	5890	2010	935	708
29	627	475	370	360	510	540	3350	4560	5720	1830	899	688
30	615	470	350	375	---	520	3560	4090	5400	1750	878	662
31	599	---	345	400	---	500	---	3720	---	1690	858	---
TOTAL	18586	17326	15250	11440	13205	14770	49110	145410	159740	106790	34688	23160
MEAN	600	578	492	369	455	476	1637	4691	5325	3445	1119	772
MAX	678	654	590	425	510	540	3560	9450	7700	6520	1630	896
MIN	530	470	345	320	400	420	490	3330	3000	1690	826	662
AC-FT	36870	34370	30250	22690	26190	29300	97410	288400	316800	211800	68800	45940

CAL YR 1979 TOTAL 443626 MEAN 1215 MAX 7720 MIN 345 AC-FT 879900
WTR YR 1980 TOTAL 609475 MEAN 1665 MAX 9450 MIN 320 AC-FT 1209000

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1963 to September 1976.
WATER TEMPERATURES: October 1963 to September 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT										
02...	1550	--	546	370	--	15.0	2	--	--	--
24...	1150	--	650	390	8.1	5.0	3	10.0	K4	170
NOV										
07...	1000	--	592	380	--	2.5	2	--	--	--
28...	1130	500	--	490	8.0	.0	3	10.8	K1	210
DEC										
05...	1610	530	--	440	--	.0	4	--	--	--
18...	1200	570	--	470	8.0	.0	2	11.8	K2	200
JAN										
07...	1315	360	--	440	--	.0	3	--	--	--
22...	1220	370	--	425	7.6	.0	2	9.5	28	200
FEB										
07...	1500	420	--	425	--	.0	1	--	--	--
27...	1230	490	--	710	7.6	.5	3	11.4	<1	300
MAR										
13...	1100	430	--	440	8.0	.0	4	9.6	K2	200
APR										
24...	1320	--	3350	400	7.7	9.0	1100	9.4	96	180
MAY										
12...	1200	--	4950	375	8.6	6.0	45	10.1	78	160
JUN										
12...	1100	--	5180	270	7.5	15.0	170	7.7	150	120
19...	1230	--	5760	280	--	14.0	330	--	--	--
JUL										
09...	1630	--	4330	360	8.3	19.5	160	9.6	K12	130
AUG										
05...	1530	--	1470	300	8.5	19.0	2	9.6	K5	140
SEP										
05...	1200	--	755	310	8.4	14.5	--	8.1	K7	170

K-Results based on colony count outside the acceptable range (non-ideal colony count).

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT										
02...	--	--	--	--	--	--	--	--	--	--
24...	39	47	13	19	.6	1.8	160	0	130	67
NOV										
07...	--	--	--	--	--	--	--	--	--	--
28...	38	58	16	19	.6	2.0	210	0	170	64
DEC										
05...	--	--	--	--	--	--	--	--	--	--
18...	36	58	14	17	.5	2.1	200	0	160	72
JAN										
07...	--	--	--	--	--	--	--	--	--	--
22...	44	53	15	17	.5	1.8	190	0	160	68
FEB										
07...	--	--	--	--	--	--	--	--	--	--
27...	79	84	21	27	.7	3.3	270	0	220	110
MAR										
13...	36	56	14	14	.4	.5	200	0	160	53
APR										
24...	24	47	16	22	.7	4.0	190	0	160	74
MAY										
12...	12	38	17	20	.7	1.2	180	0	150	44
JUN										
12...	22	30	10	7.0	.3	1.5	120	0	98	31
19...	--	--	--	--	--	--	--	--	--	--
JUL										
09...	15	33	10	8.2	.3	1.0	140	0	120	20
AUG										
05...	25	40	8.6	7.0	.3	1.4	140	0	120	38
SEP										
05...	42	39	17	9.7	.3	1.0	150	3	130	51

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)
OCT									
02...	--	--	--	--	--	--	--	--	--
24...	3.4	.3	8.1	238	.32	418	8	.15	.00
NOV									
07...	--	--	--	--	--	--	--	--	--
28...	6.0	.4	9.2	286	.39	386	0	.04	.00
DEC									
05...	--	--	--	--	--	--	--	--	--
18...	4.1	.3	9.2	276	.38	425	0	.13	.00
JAN									
07...	--	--	--	--	--	--	--	--	--
22...	4.3	.4	8.6	263	.36	263	4	.19	.22
FEB									
07...	--	--	--	--	--	--	--	--	--
27...	6.6	.4	13	396	.54	524	8	.85	.83
MAR									
13...	5.0	.3	6.7	247	.34	287	0	.06	.07
APR									
24...	5.9	.2	--	--	--	2200	343	.11	.43
MAY									
12...	5.2	.1	7.3	220	.30	2940	121	.04	.09
JUN									
12...	1.8	.3	7.2	148	.20	2070	72	.01	.00
19...	--	--	--	--	--	--	--	--	--
JUL									
09...	2.4	.4	7.6	150	.20	1750	20	.00	.00
AUG									
05...	2.5	.3	5.3	172	.23	683	12	.00	.00
SEP									
05...	2.8	.3	8.2	210	.29	428	23	.00	.00

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
OCT									
02...	--	--	--	--	--	--	--	--	--
24...	.060	.07	.94	1.0	1.2	5.1	.020	5.1	.1
NOV									
07...	--	--	--	--	--	--	--	--	--
28...	.060	.07	.31	.37	.41	1.8	.000	--	--
DEC									
05...	--	--	--	--	--	--	--	--	--
18...	.130	.16	.55	.68	.81	3.6	.040	--	--
JAN									
07...	--	--	--	--	--	--	--	--	--
22...	.110	.13	.29	.40	.59	2.6	.010	--	--
FEB									
07...	--	--	--	--	--	--	--	--	--
27...	.170	.21	.37	.54	1.4	6.2	.040	--	--
MAR									
13...	.020	.02	.30	.32	.38	1.7	.020	--	--
APR									
24...	.100	.12	1.8	1.9	2.0	8.9	.460	--	--
MAY									
12...	.040	.05	.63	.67	.71	3.1	.120	--	--
JUN									
12...	.040	.05	.96	1.0	1.0	4.5	.000	11	--
19...	--	--	--	--	--	--	--	--	--
JUL									
09...	.000	.00	.52	.52	.52	2.3	.020	--	--
AUG									
05...	.020	.02	.26	.28	.28	1.2	.010	--	--
SEP									
05...	.000	.00	.67	.67	.67	3.0	.010	--	--

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT												
24...	1150	130	130	0	1	0	1	0	0	<1	50	2
NOV												
28...	1130	--	--	--	--	--	--	--	--	--	50	--
DEC												
18...	1200	--	--	--	--	--	--	--	--	--	60	--
JAN												
22...	1220	--	--	--	--	--	--	--	--	--	70	--
FEB												
27...	1230	--	--	--	--	--	--	--	--	--	70	--
MAR												
13...	1100	--	--	--	--	--	--	--	--	--	80	--
APR												
24...	1320	--	--	--	--	--	--	--	--	--	120	--
MAY												
12...	1200	--	--	--	--	--	--	--	--	--	50	--
JUN												
12...	1100	900	880	20	2	1	1	0	--	<1	30	1
JUL												
09...	1630	--	--	--	--	--	--	--	--	--	60	--
AUG												
05...	1530	--	--	--	--	--	--	--	--	--	110	--
SEP												
05...	1200	--	--	--	--	--	--	--	--	--	20	--

GREEN RIVER BASIN

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)
OCT 24...	1	<1	4	4	0	2	2	0	190	--	20	4
NOV 28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 13...	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	<1	10	10	0	370	350	18	3300	3200	60	240
JUL 09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 05...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
OCT 24...	4	0	10	5	5	20	10	6	.0	.0	.0	0
NOV 28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 13...	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	240	0	10	4	6	130	120	9	.2	.0	1.3	0
JUL 09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 05...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--	--	--	--	--

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 24...	0	<10	2	1	1	0	0	0	<1.0	0	0	5
NOV 28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 13...	--	--	--	--	--	--	--	--	--	--	--	--
APR 24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 12...	--	<10	6	6	0	0	0	0	2.0	80	70	8
JUL 09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 05...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE, WATER (DEG C)	PCB TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT 23...	1130	640	8.5	.00	0	--	--	.00	.0	.0	0
MAY 19...	1300	4440	14.5	.00	0	.0	.0	.00	.1	.0	0
SEP 05...	1200	755	14.5	.00	0	.0	.0	.00	.0	.0	0

DATE	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT 23...	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0
MAY 19...	.00	.0	.00	.1	.00	.0	.00	.00	.0	.00	.0
SEP 05...	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)
OCT										
23...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
MAY										
19...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
SEP										
05...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00

DATE	METHOXYCHLOR, TOTAL (UG/L)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	PERTHANE IN BOTTOM MATERIL (UG/KG)	TOXAPHENE, TOTAL (UG/L)
OCT										
23...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0
MAY										
19...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0
SEP										
05...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0

DATE	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)	2,4-DP IN BOTTOM MATERIL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT										
23...	0	.00	.00	0	.00	.0	.00	0	.00	.0
MAY										
19...	0	.00	.00	0	.00	.0	.00	0	.00	.0
SEP										
05...	0	.00	.00	0	.00	.0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MATERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MATERIAL (UG/KG)
OCT				
23...	.00	.0	.00	.0
MAY				
19...	.00	.0	.00	.0
SEP				
05...	.00	.0	.00	.0

09209400 GREEN RIVER NEAR LA BARGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT									
02...	1550	15.0	--	546	3	4.4	--	--	--
NOV									
07...	1000	2.5	--	592	12	19	--	--	--
DEC									
05...	1610	.0	530	--	15	21	--	--	--
JAN									
07...	1315	.0	360	--	6	5.8	--	--	--
FEB									
07...	1500	.0	420	--	10	11	--	--	--
MAR									
13...	1100	.0	430	--	11	13	--	--	--
APR									
24...	1320	9.0	--	3350	482	4360	29	49	76
MAY									
12...	1200	6.0	--	4950	177	2370	--	--	--
JUN									
12...	1100	15.0	--	5180	145	2030	--	--	--
19...	1230	14.0	--	5760	78	1210	--	--	--
JUL									
09...	1630	19.5	--	4330	20	234	--	--	--
AUG									
05...	1530	19.0	--	1470	13	52	--	--	--
SEP									
05...	1200	14.5	--	755	10	20	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	NUMBER OF SAM-PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
OCT								
02...	--	--	--	--	--	--	--	--
NOV								
07...	--	--	--	--	--	--	--	--
DEC								
05...	--	--	--	--	--	--	--	--
JAN								
07...	--	--	--	--	--	--	--	--
FEB								
07...	--	--	--	--	--	--	--	--
MAR								
13...	--	--	--	--	--	--	--	--
APR								
24...	88	98	100	--	--	--	--	--
MAY								
12...	--	--	--	--	--	--	--	--
JUN								
12...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
JUL								
09...	--	--	--	--	--	--	--	--
AUG								
05...	--	--	--	--	--	--	--	--
SEP								
05...	--	--	--	99	3	8	44	89

09210500 FONTENELLE CREEK NEAR HERSCHLER RANCH, NEAR FONTENELLE, WY

LOCATION.--Lat 42°05'46", long 110°24'57", in NW¼SW¼NE¼ sec.2, T.24 N., R.115 W., Lincoln County, Hydrologic Unit 14040101, on left bank 2.0 mi (3.2 km) downstream from Dutch George Creek and 14 mi (23 km) west of Fontenelle.

DRAINAGE AREA.--152 mi^2 (394 km^2).

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,950 ft (2,118 m), from topographic map. Prior to May 5, 1970, at site 300 ft (91 m) downstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 780 acres (3.16 km^2) above station.

AVERAGE DISCHARGE.--29 years, 72.7 ft^3/s (2.059 m^3/s), 52,670 acre-ft/yr (64.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 821 ft^3/s (23.3 m^3/s) June 13, 1965, gage height, 6.87 ft (2.094 m); maximum gage height, 8.03 ft (2.448 m) June 16, 1978; minimum daily discharge, 8.8 ft^3/s (0.25 m^3/s) Aug. 14, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft^3/s (4.25 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 1	0300	*904	25.6	9.33	2.844
May 24	1000	524	14.8	7.90	2.408

Minimum daily discharge, 16 ft^3/s (0.45 m^3/s) Dec. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	26	20	20	23	25	22	707	343	188	56	38
2	24	28	21	22	25	24	21	577	351	185	55	37
3	23	29	23	23	27	23	22	505	376	181	53	36
4	23	29	25	25	28	24	23	483	340	170	52	35
5	23	28	24	27	30	21	25	570	347	154	54	35
6	22	26	25	25	30	22	22	498	347	136	51	35
7	25	26	26	26	28	22	17	536	343	129	48	36
8	23	27	27	27	26	23	18	519	345	127	49	37
9	23	23	25	25	24	24	19	505	351	122	49	36
10	24	27	23	24	23	25	17	440	369	112	47	39
11	23	28	21	24	24	25	17	402	394	107	46	45
12	24	27	20	25	25	24	18	421	414	100	46	51
13	25	29	21	26	26	25	21	459	414	97	47	43
14	25	29	23	27	26	23	23	397	394	88	46	39
15	25	27	25	28	27	24	28	362	371	82	50	36
16	25	28	27	29	26	23	35	402	343	80	53	35
17	25	30	28	29	26	23	44	397	329	80	50	34
18	25	30	29	28	25	24	48	378	316	79	44	34
19	69	28	28	26	24	25	60	340	305	79	44	34
20	69	27	27	26	22	26	120	343	299	75	46	34
21	40	26	29	25	22	25	170	367	294	71	44	34
22	36	24	26	25	21	24	220	409	285	70	43	35
23	34	27	23	24	21	23	433	478	277	67	44	34
24	32	26	19	24	20	25	462	507	258	66	42	34
25	31	25	18	23	19	26	378	469	244	67	42	33
26	29	24	19	21	20	25	457	414	224	62	57	33
27	29	23	18	20	22	24	488	358	210	61	42	33
28	29	21	17	19	23	25	526	338	202	58	40	33
29	29	20	16	20	24	26	560	323	196	58	37	32
30	28	19	18	21	---	25	647	321	192	60	37	32
31	23	---	19	21	---	24	---	327	---	58	38	---
TOTAL	910	787	710	755	707	747	4961	13552	9473	3069	1452	1082
MEAN	29.4	26.2	22.9	24.4	24.4	24.1	165	437	316	99.0	46.8	36.1
MAX	69	30	29	29	30	26	647	707	414	188	57	51
MIN	22	19	16	19	19	21	17	321	192	58	37	32
AC-FT	1800	1560	1410	1500	1400	1480	9840	26880	18790	6090	2880	2150

CAL YR 1979 TOTAL 23235 MEAN 63.7 MAX 376 MIN 16 AC-FT 46090
WTR YR 1980 TOTAL 38205 MEAN 104 MAX 707 MIN 16 AC-FT 75780

09211150 FONTENELLE RESERVOIR NEAR FONTENELLE, WY

LOCATION.--Lat 42°02'00", long 110°04'00", in S½ sec.25, T.24 N., R.112 W., Lincoln County, Hydrologic Unit 14040101, at dam on Green River, 3.0 mi (4.8 km) north of Fontenelle, and 3.5 mi (5.6 km) upstream from Slate Creek.

DRAINAGE AREA.--4,280 mi^2 (11,085 km^2), approximately.

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--USP 2125: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service).

REMARKS.--Reservoir is formed by earthfill dam completed by Water and Power Resources Service in April 1964. Capacity, 344,800 acre-ft (425 hm^3) between elevations 6,506.0 ft (1,983.03 m), crest of spillway, and 6,408.0 ft (1,953.16 m), invert of outlet pipe. Dead storage, below elevation 6,408.0 ft (1,953.16 m), 563 acre-ft (0.694 hm^3). Figures given herein represent total contents. Water used for irrigation and power development.

COOPERATION.--Records furnished by Water and Power Resources Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 387,000 acre-ft (477 hm^3) June 29, 1965, elevation, 6,511.01 ft (1,984.556 m); minimum daily, 5,680 acre-ft (7.00 hm^3) July 28, 1967, elevation, 6,423.98 ft (1,958.029 m).

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 369,900 acre-ft (456 hm^3) June 24, elevation, 6,508.98 ft (1,983.937 m); minimum daily, 152,500 acre-ft (188 hm^3) Apr. 20, elevation, 6,477.28 ft (1,974.275 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	6,498.88	290,400	-
Oct. 31	6,497.66	281,400	-9,000
Nov. 30	6,494.92	261,600	-19,800
Dec. 31	6,490.29	229,500	-32,100
CAL YR 1979	-	-	-55,200
Jan. 31	6,487.83	213,300	-16,200
Feb. 29	6,486.84	206,900	-6,400
Mar. 31	6,483.49	186,400	-20,500
Apr. 30	6,483.96	189,200	+2,800
May 31	6,505.81	344,000	+154,800
June 30	6,508.46	365,600	+21,600
July 31	6,506.36	348,400	-17,200
Aug. 31	6,501.78	312,300	-36,100
Sept. 30	6,500.07	299,300	-13,000
WTR YR 1980	-	-	+8,900

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY

LOCATION.--Lat 42°01'16", long 110°02'57", in NW¼NW¼NE¼ sec.31, T.24 N., R.111 W., Sweetwater County, Hydrologic Unit 14040103, on right bank 1.0 mi (1.6 km) downstream from Fontenelle Dam, 2.5 mi (4.0 km) upstream from Slate Creek, and 6.0 mi (9.7 km) southeast of Fontenelle.

DRAINAGE AREA.--4,280 mi^2 (11,090 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1963 to current year.

REVISED RECORDS.--WSP 2125: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,378.13 ft (1,944.054 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow completely regulated by Fontenelle Reservoir 1.0 mi (1.6 km) upstream. (See sta 09211150.) Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 202,000 acres (817 km^2) above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,400 ft^3/s (549 m^3/s) Sept. 5, 1965, gage height, 18.74 ft (5.712 m), from floodmarks, caused by emergency release from Fontenelle Reservoir; minimum daily discharge, 209 ft^3/s (5.92 m^3/s) Nov. 22-24, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,480 ft^3/s (212 m^3/s) June 23, gage height, 15.13 ft (4.612 m); minimum daily, 475 ft^3/s (13.5 m^3/s) Sept. 23, 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	733	750	927	927	588	566	1610	1620	5100	5900	1810	1580
2	741	741	927	927	588	564	1610	1640	5120	5660	1750	1350
3	741	741	927	937	588	567	1610	1650	5140	5710	1710	1150
4	741	740	927	927	586	569	1600	1660	5140	6050	1630	1150
5	741	732	927	927	584	577	1600	1660	5140	6300	1580	1160
6	741	724	927	927	582	574	1600	1680	5180	6280	1560	1180
7	741	724	927	927	581	575	1590	1690	5180	5910	1560	1180
8	741	724	927	927	580	578	1590	1650	5240	5430	1560	1190
9	750	724	927	776	579	576	1590	1700	5060	4990	1540	1190
10	750	733	927	579	578	577	1590	1700	4370	4640	1560	1190
11	750	724	927	571	577	578	1580	1720	3480	4260	1560	1190
12	758	724	927	579	576	600	1570	1730	2720	3890	1570	1210
13	767	724	969	588	575	599	1570	1720	2460	3600	1580	1210
14	758	785	937	588	574	595	1570	1720	2470	3420	1580	1210
15	758	724	937	588	573	595	1570	1720	2790	3230	1580	1210
16	750	733	937	588	572	596	1470	1720	4460	3060	1600	1180
17	750	733	969	588	571	596	1570	1720	5830	2930	1580	1180
18	750	733	948	588	571	596	1740	1720	6120	2780	1580	1180
19	750	733	948	588	567	634	2310	2150	6200	2690	1580	1030
20	750	733	937	588	576	709	2810	2810	6340	2610	1570	849
21	750	733	927	588	575	777	2600	3100	6520	2540	1580	642
22	750	733	927	588	572	825	1820	3100	6940	2530	1580	491
23	750	830	927	588	573	823	1570	3100	7310	2500	1580	475
24	750	948	937	588	576	1020	1570	3100	7360	2450	1600	476
25	750	948	937	588	577	1220	1580	3100	7360	2370	1580	476
26	750	937	937	588	576	1410	1600	3100	7250	2320	1580	475
27	750	1010	937	588	574	1630	1600	3560	7010	2190	1580	476
28	750	1120	927	588	574	1630	1600	5060	6710	2170	1580	581
29	741	937	927	579	570	1630	1610	5300	6500	2070	1580	780
30	750	927	927	579	---	1620	1610	5550	6230	1960	1580	732
31	750	---	927	579	---	1620	---	5180	---	1870	1580	---
TOTAL	23202	23802	28943	21076	16733	26026	50910	78630	162730	114310	49440	29373
MEAN	748	793	934	680	577	840	1697	2536	5424	3687	1595	979
MAX	767	1120	969	937	588	1630	2810	5550	7360	6300	1810	1580
MIN	733	724	927	571	567	564	1470	1620	2460	1870	1540	475
AC-FT	46020	47210	57410	41800	33190	51620	101000	156000	322800	226700	98060	58260

CAL YR 1979 TOTAL 467645 MEAN 1281 MAX 4800 MIN 338 AC-FT 927600
WTR YR 1980 TOTAL 625175 MEAN 1708 MAX 7360 MIN 475 AC-FT 1240000

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1967 to September 1976.
WATER TEMPERATURES: October 1967 to September 1976.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT 24...	1020	750	450	8.4	11.0	2	9.0	K1	170	47
NOV 28...	1000	1250	430	8.4	2.0	3	11.6	K3	170	42
DEC 18...	1030	949	470	8.1	2.5	2	11.4	<1	170	39
JAN 22...	1115	588	500	8.1	3.0	1	11.0	<1	220	70
FEB 27...	1100	580	610	7.9	4.0	2	11.0	K1	210	62
MAR 12...	1130	604	500	8.2	3.0	1	10.4	K1	210	46
APR 17...	1215	1570	500	8.2	4.0	--	10.7	K1	200	44
MAY 12...	1700	1740	400	8.1	5.0	7	10.6	K1	200	52
JUN 04...	1200	5150	415	8.0	10.0	--	9.0	--	160	29
JUL 11...	1250	4240	310	8.0	18.5	20	9.2	K7	130	23
AUG 04...	1100	1630	400	8.3	17.0	2	8.4	K6	150	35
SEP 05...	1630	1180	290	8.2	18.5	1	8.7	<1	150	33

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
OCT 24...	46	14	26	.9	1.3	150	0	120	92
NOV 28...	45	14	26	.9	2.0	150	3	130	69
DEC 18...	45	13	27	.9	1.9	160	0	130	89
JAN 22...	56	19	34	1.0	2.1	180	0	150	130
FEB 27...	60	16	34	1.0	2.8	180	0	150	130
MAR 12...	57	17	34	1.0	1.3	200	0	160	100
APR 17...	54	16	22	.7	2.0	190	0	160	89
MAY 12...	51	17	27	.8	1.7	180	0	150	91
JUN 04...	49	10	17	.6	3.4	160	0	130	56
JUL 11...	34	13	10	.4	1.1	130	0	110	37
AUG 04...	41	12	12	.4	1.4	140	0	120	51
SEP 05...	35	14	5.1	.2	.9	130	6	120	30

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
OCT 24...	3.4	.3	4.9	262	.36	531	4	.17	.00
NOV 28...	30	.3	4.5	266	.36	898	0	.06	.00
DEC 18...	4.3	.3	6.3	268	.36	687	1	.06	.00
JAN 22...	5.9	.4	7.1	343	.47	545	0	.27	.06
FEB 27...	5.6	.3	6.5	342	.47	536	6	.52	.39
MAR 12...	5.9	.3	6.3	318	.43	519	0	.28	.10
APR 17...	4.8	.2	.0	282	.38	1200	0	.05	.04
MAY 12...	5.7	.3	6.3	290	.39	1360	20	.11	.12
JUN 04...	3.7	.3	7.5	230	.31	3200	5	.06	.13
JUL 11...	3.4	.2	7.3	170	.23	1950	8	.04	.00
AUG 04...	2.7	.2	7.1	200	.27	880	16	.01	.12
SEP 05...	2.1	.3	9.4	170	.23	542	28	.00	.00

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
OCT 24...	.250	.30	.41	.66	.83	3.7	.020	5.2	--
NOV 28...	.040	.05	.45	.49	.55	2.4	.000	--	--
DEC 18...	.130	.16	.71	.84	.90	4.0	.040	--	--
JAN 22...	.080	.10	.41	.49	.76	3.4	.010	--	--
FEB 27...	.150	.18	.13	.28	.80	3.5	.010	--	--
MAR 12...	.080	.10	.37	.45	.73	3.2	.000	--	--
APR 17...	.100	.12	.52	.62	.67	3.0	.010	--	4.1
MAY 12...	.030	.04	.42	.45	.56	2.5	.030	--	--
JUN 04...	.100	.12	.53	.63	.69	3.1	2.400	--	--
JUL 11...	.100	.12	.82	.92	.96	4.3	.020	--	6.9
AUG 04...	.130	.16	.19	.32	.33	1.5	.010	--	--
SEP 05...	.000	.00	.78	.78	.78	3.5	.010	--	--

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT 24...	1020	80	80	0	2	0	2	0	0	<1	70	2
NOV 28...	1000	--	--	--	--	--	--	--	--	--	30	--
DEC 18...	1030	--	--	--	--	--	--	--	--	--	100	--
JAN 22...	1115	--	--	--	--	--	--	--	--	--	70	--
FEB 27...	1100	--	--	--	--	--	--	--	--	--	70	--
MAR 12...	1130	--	--	--	--	--	--	--	--	--	90	--
APR 17...	1215	180	130	50	1	0	1	0	0	0	90	1
MAY 12...	1700	--	--	--	--	--	--	--	--	--	50	--
JUN 04...	1200	--	--	--	--	--	--	--	--	--	60	--
JUL 11...	1250	100	90	10	1	0	1	0	--	<1	40	1
AUG 04...	1100	--	--	--	--	--	--	--	--	--	90	--
SEP 05...	1630	--	--	--	--	--	--	--	--	--	7	--

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT 24...	0	2	0	0	0	0	0	0	80	--	<10	0
NOV 28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 12...	--	--	--	--	--	--	--	--	--	--	--	--
APR 17...	1	0	0	0	0	10	4	6	270	240	30	8
MAY 12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 04...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 11...	--	<1	0	0	10	8	0	9	110	90	20	7
AUG 04...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--	--	--	--	--

09211200 GREEN RIVER BELOW FONTENELLE RESERVOIR, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM SUS- PENDED RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)
OCT 24...	0	0	8	0	9	20	20	4	.1	.1	.0	1
NOV 28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 12...	--	--	--	--	--	--	--	--	--	--	--	--
APR 17...	6	2	10	0	10	60	30	30	.1	.1	.0	1
MAY 12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 04...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 11...	7	0	10	4	6	10	7	3	.1	.1	.0	0
AUG 04...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB- DENUM, SUS- PENDED RECOV. (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 24...	0	<10	3	1	2	0	0	0	<1.0	20	20	<3
NOV 28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 12...	--	--	--	--	--	--	--	--	--	--	--	--
APR 17...	0	2	5	5	0	0	0	0	1.0	50	20	30
MAY 12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 04...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 11...	--	<10	4	2	2	0	0	0	1.0	40	30	10
AUG 04...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 05...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	TEMPER- ATURE, WATER (DEG C)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
MAY 12...	1700	5.0	1740	7	33

09212500 BIG SANDY RIVER AT LECKIE RANCH, NEAR BIG SANDY, WY

LOCATION.--Lat 42°34'17", long 109°16'58", in sec.17, T.30 N., R.104 W., Sublette County, Hydrologic Unit 14040104, on left bank at Leckie Ranch, 0.1 mi (0.2 km) downstream from Squaw Creek, and 10.1 mi (16.3 km) southeast of Big Sandy.

DRAINAGE AREA.--94 mi^2 (243 km^2).

PERIOD OF RECORD.--July to November 1910, May to August 1911, July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313. Published as Big Sandy Creek near Big Sandy 1910-11 and in WSP 618, and as Big Sandy Creek at Leckie Ranch, near Big Sandy July 1939 to October 1968.

REVISED RECORDS.--WSP 2125: 1963, 1964(P), 1965.

GAGE.--Water-stage recorder. Altitude of gage is 7,800 ft (2,377 m), by barometer. See WSP 1733 for history of changes prior to July 24, 1939. July 24, 1939, to June 1, 1961, water-stage recorder at site 75 ft (23 m) downstream at present datum.

REMARKS.--Records good. Diversions for irrigation of about 750 acres (3.04 km^2) above station. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, are given below:

Oct. 1 . . 19
Feb. 28 . . 17

AVERAGE DISCHARGE.--32 years (water years 1940-71), 86.0 ft^3/s (2.436 m^3/s), 62,310 acre-ft/yr (76.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft^3/s (44.7 m^3/s) June 10, 1965, gage height, 9.06 ft (2.761 m), from rating curve extended above 1,000 ft^3/s (28.3 m^3/s); minimum daily, 3.0 ft^3/s (0.085 m^3/s) Dec. 17, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 23	0730	786	22.3	7.34	2.237	June 20	0700	913	25.9	7.67	2.338
June 12	0630	*1,040	29.5	7.97	2.429	July 2	0800	764	21.6	7.28	2.219

Minimum daily discharge during period of operation, 13 ft^3/s (0.37 m^3/s) Mar. 20-23, 25, 26, 29-31, Apr. 1-8, 10-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						16	13	180	255	549	59	36
2						16	13	190	278	617	56	31
3						16	13	190	256	576	54	26
4						16	13	225	272	507	51	24
5						16	13	250	307	393	48	23
6						15	13	275	314	344	43	22
7						14	13	300	312	305	40	21
8						14	13	340	370	286	39	22
9						14	14	350	496	276	39	22
10						15	13	300	598	266	36	22
11						15	13	250	742	253	35	32
12						15	13	210	869	232	32	51
13						15	13	190	764	211	32	68
14						15	15	182	717	195	30	57
15						14	15	163	620	177	36	47
16						14	18	172	446	157	49	41
17						14	19	208	502	148	72	36
18						15	20	211	662	137	50	33
19						15	25	226	573	133	41	31
20						13	33	282	742	124	44	31
21						13	40	432	703	116	41	30
22						13	50	620	626	110	36	29
23						13	120	746	646	104	39	28
24						14	170	570	585	99	40	30
25						13	130	398	570	96	38	31
26						13	100	342	564	89	42	29
27						14	94	295	540	85	41	27
28						15	100	278	398	79	41	26
29						13	120	270	373	67	36	24
30						13	140	253	438	64	33	24
31						13	---	260	---	63	34	---
TOTAL						444	1379	9158	15538	6858	1307	954
MEAN						14.3	46.0	295	518	221	42.2	31.8
MAX						16	170	746	869	617	72	68
MIN						13	13	163	255	63	30	21
AC-FT						881	2740	18160	30820	13600	2590	1890

09213500 BIG SANDY RIVER NEAR FARSON, WY

LOCATION.--Lat 42°19'01", long 109°29'06", in NW¼SE¼NW¼ sec.17, T.27 N., R.106 W., Sublette County, Hydrologic Unit 14040104, on left upstream side of Eden Canal diversion, about 1.0 mi (1.6 km) upstream from high-water line of Big Sandy Reservoir, 14.5 mi (23.3 km) north of Farson, and 24.5 mi (39.4 km) upstream from Little Sandy Creek.

DRAINAGE AREA.--322 mi^2 (834 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1914 to September 1917, October 1920 to October 1924, October 1926 to September 1934, April 1953 to current year (no winter records since 1971). Prior to October 1968, published as Big Sandy Creek near Farson. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,770 ft (2,063 m), from topographic map. Prior to Apr. 28, 1921, nonrecording gage, and Apr. 28, 1921, to Aug. 3, 1934, water-stage recorder at site 0.5 mi (0.8 km) upstream at different datum. Apr. 17, 1953, to Nov. 11, 1954, water-stage recorder at site 1.5 mi (2.4 km) upstream at different datum.

REMARKS.--Records good except those for April, which are poor. Diversions for irrigation of about 1,000 acres (4.05 km^2) above station. The Eden Canal, which bypasses the station, has not been used since station was established at present site in November 1954. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation are given below:

Oct. 2 . . 16

AVERAGE DISCHARGE.--33 years (water years 1915-17, 1921-24, 1927-34, 1954-71), 86.5 ft^3/s (2.450 m^3/s), 62,700 acre-ft/yr (77.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,480 ft^3/s (41.9 m^3/s) June 9, 1972, gage height, 8.10 ft (2.469 m); no flow Jan. 27-31, 1963, and may have also reached no flow in previous years during periods of ice effect.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft^3/s (9.91 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 23	1800	--	--	a7.49	2.283
Apr. 24	0030	423	12.0	6.42	1.957
May 9	2400	408	11.6	6.10	1.859
May 24	0700	851	24.1	7.29	2.222
June 13	0930	*1,030	29.2	7.47	2.277
June 21	0600	895	25.3	7.25	2.210
July 3	0600	851	24.1	7.32	2.231

a-Backwater from ice.

Minimum daily discharge during period of operation, 16 ft^3/s (0.45 m^3/s) Apr. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							17	265	263	444	56	34
2							16	304	255	562	53	33
3							17	285	273	643	49	30
4							18	269	245	586	47	28
5							20	273	254	482	45	27
6							19	279	293	397	42	27
7							18	297	308	348	39	26
8							19	335	292	311	36	25
9							20	360	372	288	34	22
10							21	368	514	273	32	22
11							22	306	639	255	30	25
12							21	262	790	240	29	27
13							22	246	906	220	27	34
14							23	322	814	199	25	51
15							24	213	756	178	27	60
16							26	182	639	159	31	50
17							27	204	472	140	37	44
18							30	253	543	134	50	37
19							50	238	686	127	56	34
20							90	242	618	122	44	32
21							150	293	784	115	40	31
22							250	485	737	109	40	31
23							350	683	660	100	36	30
24							410	795	664	95	33	29
25							370	589	597	89	33	28
26							320	435	582	86	53	30
27							270	380	566	79	49	31
28							240	318	525	73	41	29
29							217	295	419	67	40	27
30							235	283	395	62	39	26
31							---	258	---	59	36	---
TOTAL							3332	10317	15861	7042	1229	960
MEAN							111	333	529	227	39.6	32.0
MAX							410	795	906	643	56	60
MIN							16	182	245	59	25	22
AC-FT							6610	20460	31460	13970	2440	1900

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-64, 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)
OCT						
02...	1240	--	16	190	16.5	4
APR						
01...	1500	17	--	200	.0	1
24...	1430	410	--	200	1.5	2300
MAY						
14...	1345	--	320	270	12.0	2000
JUN						
03...	1400	--	265	100	12.5	280
18...	1045	--	514	130	12.0	3200
JUL						
07...	1530	--	340	70	18.0	1600
AUG						
04...	1200	--	48	110	17.5	7
18...	1245	--	47	175	17.0	--
SEP						
03...	1245	--	31	195	17.5	--

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM
OCT										
02...	1240	16.5	--	16	9	.39	--	--	--	--
APR										
01...	1500	.0	17	--	15	.69	--	--	--	--
24...	1430	1.5	410	--	787	871	67	84	--	--
MAY										
14...	1345	12.0	--	320	874	755	62	79	92	96
JUN										
03...	1400	12.5	--	265	201	144	--	--	--	--
18...	1045	12.0	--	514	306	425	--	--	--	--
JUL										
07...	1530	18.0	--	340	151	139	--	--	--	--
AUG										
04...	1200	17.5	--	48	136	18	--	--	--	--
18...	1245	17.0	--	47	523	66	--	--	--	--
SEP										
03...	1245	17.5	--	31	69	5.8	--	--	--	--

09213500 BIG SANDY RIVER NEAR FARSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT									
02...	--	--	--	--	--	--	--	--	--
APR									
01...	--	--	--	--	--	--	--	--	--
24...	--	93	95	97	99	99	100	--	--
MAY									
14...	100	--	--	--	--	--	--	--	--
JUN									
03...	--	--	--	--	--	--	--	10	2
18...	--	--	--	--	--	--	--	--	--
JUL									
07...	--	--	--	--	--	--	--	--	--
AUG									
04...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	20	.1
SEP									
03...	--	--	--	--	--	--	--	--	--

DATE	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
OCT									
02...	--	--	--	--	--	--	--	--	--
APR									
01...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
MAY									
14...	--	--	--	--	--	--	--	--	--
JUN									
03...	3	12	45	63	80	92	99	100	--
18...	--	--	--	--	--	--	--	--	--
JUL									
07...	--	--	--	--	--	--	--	--	--
AUG									
04...	--	--	--	--	--	--	--	--	--
18...	.3	6	25	43	57	66	71	75	100
SEP									
03...	--	--	--	--	--	--	--	--	--

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY

LOCATION.--Lat 42°14'12", long 109°18'44", in SE¼SW¼SW¼ sec.11, T.26 N., R.105 W., Sweetwater County, Hydrologic Unit 14040104, on right bank 1.6 mi (2.6 km) upstream from diversion to Eden No. 2 Reservoir, 11 mi (18 km) northeast of Farson, and 14 mi (23 km) northeast of Eden.

DRAINAGE AREA.--134 mi^2 (347 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year.

REVISED RECORDS.--WDR WY-76-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,750 ft (2,057 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Diversions above station for irrigation of about 1,220 acres (4.94 km^2), of which about 150 acres (61 hm^2) are below station.

AVERAGE DISCHARGE.--26 years, 19.2 ft^3/s (0.544 m^3/s), 13,910 acre-ft/yr (17.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) Apr. 24, 1980, gage height, 11.89 ft (3.624 m) from rating curve extended above 520 ft^3/s (14.7 m^3/s) on basis of computation of peak flow over spillway and weir; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) Apr. 24, gage height, 11.89 ft (3.624 m); minimum daily discharge, 2.0 ft^3/s (0.057 m^3/s) Jan. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	3.0	2.5	3.9	2.3	4.0	5.4	104	66	96	14	10
2	3.9	2.1	2.4	4.2	2.6	3.7	5.1	97	65	115	13	9.9
3	3.9	3.5	2.7	4.5	3.0	4.0	4.8	92	66	152	12	9.6
4	3.7	4.5	3.0	4.8	3.4	4.3	4.8	82	63	172	11	9.0
5	3.9	5.5	3.4	5.2	3.5	4.1	5.3	81	60	179	10	8.4
6	3.7	5.8	4.0	5.2	3.4	3.8	5.2	75	62	163	14	7.8
7	3.9	5.6	4.8	4.9	3.2	4.0	5.0	76	60	120	13	7.5
8	3.7	5.3	5.3	4.5	3.1	4.3	4.7	81	57	107	12	7.5
9	3.9	5.0	5.6	4.2	2.9	4.5	5.0	88	55	96	12	7.2
10	3.9	4.5	5.3	4.0	2.8	4.8	5.5	86	58	90	11	7.8
11	3.5	5.0	4.7	4.4	3.1	4.7	5.3	80	70	89	10	8.4
12	3.2	4.8	4.4	4.6	3.3	4.5	5.0	78	93	87	10	9.9
13	3.9	4.5	4.3	4.6	3.6	4.8	5.2	84	125	82	10	14
14	3.9	4.0	4.6	4.4	3.8	5.3	5.3	84	159	73	10	14
15	4.3	4.1	5.3	4.1	4.0	5.5	5.4	70	185	66	11	12
16	4.7	4.3	5.6	3.8	4.3	5.2	5.8	61	159	58	14	9.9
17	4.7	4.4	5.7	3.5	4.5	5.2	5.8	67	136	52	16	9.3
18	4.9	4.3	5.8	3.3	4.6	5.3	6.5	107	103	48	16	8.7
19	5.3	4.1	5.9	3.1	4.7	5.5	8.0	87	104	44	13	8.4
20	7.2	4.0	5.9	3.0	4.6	5.8	25	68	130	41	12	8.4
21	9.9	3.8	5.8	3.0	4.5	6.0	80	62	125	38	13	9.0
22	7.0	3.6	5.7	3.1	4.2	6.3	250	67	149	35	12	9.0
23	5.5	3.5	5.5	3.2	4.0	6.4	780	80	163	30	12	8.4
24	6.5	3.7	5.2	3.1	3.8	6.2	836	90	159	28	11	8.4
25	7.5	3.6	4.8	2.8	3.6	5.9	336	88	159	26	12	8.4
26	8.6	3.4	4.6	2.6	3.5	5.6	188	77	145	24	11	9.0
27	8.4	3.3	4.3	2.4	3.4	5.8	135	85	136	22	12	9.0
28	8.1	3.2	4.1	2.2	3.6	6.2	115	84	137	20	12	8.1
29	7.8	2.9	3.8	2.1	3.8	6.5	109	73	135	18	11	6.0
30	6.0	2.7	3.7	2.0	---	6.4	101	69	102	16	10	6.3
31	4.5	---	3.7	2.1	---	5.9	---	66	---	14	10	---
TOTAL	163.8	122.0	142.4	112.8	105.1	160.5	3058.1	2489	3286	2201	370	269.3
MEAN	5.28	4.07	4.59	3.64	3.62	5.18	102	80.3	110	71.0	11.9	8.98
MAX	9.9	5.8	5.9	5.2	4.7	6.5	836	107	185	179	16	14
MIN	3.2	2.1	2.4	2.0	2.3	3.7	4.7	61	55	14	10	6.0
AC-FT	325	242	282	224	208	318	6070	4940	6520	4370	734	534

CAL YR 1979 TOTAL 6503.40 MEAN 17.8 MAX 175 MIN .90 AC-FT 12900
WTR YR 1980 TOTAL 12480.00 MEAN 34.1 MAX 836 MIN 2.0 AC-FT 24750

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-64, 1969, 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (JTU)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
OCT												
01...	1020	--	3.7	355	--	14.0	3	--	--	--	--	--
23...	0800	--	3.9	455	7.7	1.0	--	120	41	37	5.8	47
NOV												
02...	1015	2.1	--	390	8.1	.5	6	110	39	33	6.8	43
28...	1030	3.2	--	467	8.0	.5	25	120	42	38	7.2	45
DEC												
26...	1130	4.6	--	330	7.7	.0	2	110	25	34	5.7	35
FEB												
13...	1330	3.6	--	300	7.7	.0	4	91	20	28	5.0	25
MAR												
20...	1545	5.8	--	280	7.1	.0	2	88	20	28	4.5	23
APR												
15...	1445	5.4	--	380	8.4	.0	2	98	17	19	12	43
24...	1745	--	493	280	--	1.5	1700	--	--	--	--	--
26...	1645	--	176	360	--	8.0	1900	--	--	--	--	--
28...	1040	--	109	340	--	7.0	700	--	--	--	--	--
MAY												
01...	1015	--	102	350	--	7.0	550	--	--	--	--	--
14...	1100	--	86	700	7.4	8.5	550	150	62	44	9.1	83
JUN												
03...	1025	--	67	330	7.7	9.5	150	82	25	25	4.8	35
18...	1400	--	100	150	--	14.0	3200	--	--	--	--	--
JUL												
07...	1130	--	117	120	8.0	16.5	1400	38	8	12	2.0	7.4
AUG												
04...	1050	--	12	300	8.2	13.5	6	92	17	29	4.8	25
SEP												
03...	1030	--	9.6	300	8.1	12.5	--	66	25	20	3.9	20

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)
OCT												
01...	--	--	--	--	--	--	--	--	--	--	--	--
23...	1.9	2.3	--	--	75	130	11	.2	9.3	288	.39	3.03
NOV												
02...	1.8	3.5	--	--	71	110	8.4	.3	11	268	.36	1.52
28...	1.8	2.0	--	--	83	130	8.4	.3	12	293	.40	25.3
DEC												
26...	1.5	1.9	--	--	83	83	5.6	.2	13	230	.31	2.86
FEB												
13...	1.1	1.6	--	--	71	65	4.4	.1	13	185	.25	1.80
MAR												
20...	1.1	1.5	--	--	68	60	4.2	.1	13	175	.24	2.74
APR												
15...	1.9	1.8	99	0	81	92	9.7	.4	12	240	.33	3.50
24...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
14...	3.0	3.1	--	--	85	200	24	.4	12	427	.58	99.2
JUN												
03...	1.7	1.7	--	--	57	83	8.7	.2	9.9	203	.28	36.7
18...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	.5	.9	--	--	30	21	1.2	.9	6.8	70	.10	22.1
AUG												
04...	1.1	1.8	--	--	75	66	3.7	.3	8.0	--	--	--
SEP												
03...	1.1	1.6	--	--	41	55	4.2	.2	6.3	136	.19	3.53

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)
OCT												
01...	--	--	--	--	--	--	--	--	--	--	--	--
23...	.02	.03	.040	.020	.05	.03	.47	.51	.53	2.3	.040	.12
NOV												
02...	--	2.0	--	--	--	--	--	--	--	--	.030	.09
28...	--	.13	--	--	--	--	--	--	--	--	.010	.03
DEC												
26...	--	.43	--	--	--	--	--	--	--	--	.020	.06
FEB												
13...	.06	.14	.020	.020	.02	.03	.50	.52	.58	2.6	.040	.12
MAR												
20...	--	.03	--	--	--	--	--	--	--	--	.020	.06
APR												
15...	--	.17	--	--	--	--	--	--	--	--	.020	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	.03	--	--	--	--	--	--	--	--	.310	.95
JUN												
03...	--	.01	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
07...	.00	.00	.000	.000	.00	.00	.64	.64	.64	2.8	.130	.40
AUG												
04...	--	.00	--	--	--	--	--	--	--	--	.130	.40
SEP												
03...	--	.00	--	--	--	--	--	--	--	--	.030	.09

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)
OCT												
23...	0800	1200	1200	0	2	1	1	0	0	<1	5	2

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)
OCT												
23...	3	0	0	0	6	2	4	1500	140	8	8	0

DATE	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)
OCT											
23...	8	0	9	40	30	10	.0	.0	.0	0	0

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
23...	<10	4	4	0	0	0	0	<1.0	0	0	10

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)
OCT											
23...	0800	<4.4	1.8	3.5	2.0	3.6	2.1	.08	1.4	<3.0	1.2

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM
OCT											
01...	1020	14.0	--	3.7	6	.06	--	--	--	--	--
NOV											
02...	1015	.5	2.1	--	22	.12	--	--	--	--	--
28...	1030	.5	3.2	--	4	.35	--	--	--	--	--
DEC											
26...	1130	.0	4.6	--	10	.12	--	--	--	--	--
FEB											
13...	1330	.0	3.6	--	9	.09	--	--	--	--	--
MAR											
20...	1545	.0	5.8	--	12	.19	--	--	--	--	--
APR											
15...	1445	.0	5.4	--	8	.12	--	--	--	--	--
24...	1745	1.5	--	493	638	849	81	94	97	99	100
26...	1645	8.0	--	176	737	350	64	84	97	99	100
28...	1040	7.0	--	109	375	110	--	--	--	--	--
MAY											
01...	1015	7.0	--	102	362	100	--	--	--	--	--
14...	1100	8.5	--	86	266	62	--	--	--	--	--
JUN											
03...	1025	9.5	--	67	85	15	--	--	--	--	--
18...	1400	14.0	--	100	199	54	--	--	--	--	--
JUL											
07...	1130	16.5	--	117	165	52	--	--	--	--	--
AUG											
04...	1050	13.5	--	12	18	.58	--	--	--	--	--
SEP											
03...	1030	12.5	--	9.6	12	.31	--	--	--	--	--

09214500 LITTLE SANDY CREEK ABOVE EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
OCT										
01...	--	--	--	--	--	--	--	--	--	--
NOV										
02...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
DEC										
26...	--	--	--	--	--	--	--	--	--	--
FEB										
13...	--	--	--	--	--	--	--	--	--	--
MAR										
20...	--	--	--	--	--	--	--	--	--	--
APR										
15...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
JUN										
03...	1	2	8	21	32	46	70	93	98	100
18...	--	--	--	--	--	--	--	--	--	--
JUL										
07...	--	--	--	--	--	--	--	--	--	--
AUG										
04...	--	--	--	--	--	--	--	--	--	--
SEP										
03...	2	4	10	23	39	59	79	92	97	100

09216000 BIG SANDY RIVER BELOW EDEN, WY

LOCATION.--Lat 42°00'37", long 109°34'57", in NE¼SE¼SW¼ sec.31, T.24 N., R.107 W., Sweetwater County, Hydrologic Unit 14040104, on right bank 0.1 mi (0.2 km) downstream from Simpson Gulch, 8.0 mi (12.9 km) southwest of Eden, and 12.5 mi (20.1 km) downstream from Little Sandy Creek.

DRAINAGE AREA.--1,610 mi^2 (4,170 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to current year. Prior to October 1968, published as Big Sandy Creek below Eden.

GAGE.--Water-stage recorder. Altitude of gage is 6,450 ft (1,966 m), from topographic map.

REMARKS.--Records good except those for winter period and periods of no gage-height record, Apr. 20-25, May 7-14, June 21 to July 9, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres (78.1 km^2) above station.

AVERAGE DISCHARGE.--26 years, 48.5 ft^3/s (1.374 m^3/s), 35,140 acre-ft/yr (43.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,430 ft^3/s (210 m^3/s) Apr. 24, 1980, gage height, 11.08 ft (3.377 m), from floodmarks, from rating curve extended above 1,300 ft^3/s (36.8 m^3/s) on basis of slope-area measurement of peak flow; minimum daily discharge, 0.1 ft^3/s (0.003 m^3/s) Feb. 24, Feb. 26 to Mar. 1, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,430 ft^3/s (210 m^3/s) Apr. 24, gage height, 11.08 ft (3.377 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	36	37	22	28	31	31	131	87	170	80	80
2	39	34	36	22	30	31	31	135	83	145	76	79
3	38	35	34	22	32	31	32	107	81	150	71	77
4	38	37	31	22	32	31	32	89	73	200	70	76
5	39	39	29	23	30	31	32	78	67	250	73	74
6	38	38	27	24	28	31	32	78	66	280	69	76
7	39	38	26	22	26	32	34	73	66	260	69	76
8	38	35	26	22	25	32	33	74	64	220	70	78
9	38	37	26	22	24	32	32	72	62	180	70	79
10	39	33	27	22	25	32	32	80	53	161	68	80
11	39	35	29	21	27	31	33	68	54	136	69	84
12	40	32	31	21	28	31	33	68	52	123	68	90
13	39	33	33	21	30	31	34	80	49	120	67	94
14	39	33	31	21	31	31	36	110	56	111	68	89
15	40	33	29	21	31	31	42	95	111	109	78	88
16	41	33	26	21	31	31	44	75	199	112	102	84
17	41	32	24	21	31	32	49	81	216	109	100	66
18	41	36	23	22	31	31	68	172	186	102	103	62
19	45	33	22	23	31	31	123	285	159	98	105	66
20	50	31	22	25	31	31	230	161	159	90	98	65
21	48	30	22	27	31	31	350	92	170	86	90	66
22	45	30	23	29	31	31	500	71	190	83	81	65
23	42	29	23	30	31	32	2200	65	220	77	79	66
24	41	29	23	30	32	32	5000	69	240	68	76	62
25	41	32	22	28	32	32	1800	79	240	66	75	60
26	40	31	22	24	33	32	676	81	230	71	76	58
27	39	29	21	21	32	33	418	79	220	70	79	57
28	39	40	20	19	32	32	273	77	220	70	80	56
29	39	45	21	21	31	32	198	75	210	73	79	55
30	38	40	21	23	---	32	167	76	200	71	78	55
31	39	---	22	25	---	32	---	79	---	77	80	---
TOTAL	1251	1028	809	717	867	976	12595	2955	4083	3938	2447	2163
MEAN	40.4	34.3	26.1	23.1	29.9	31.5	420	95.3	136	127	78.9	72.1
MAX	50	45	37	30	33	33	5000	285	240	280	105	94
MIN	38	29	20	19	24	31	31	65	49	66	67	55
AC-FT	2480	2040	1600	1420	1720	1940	24980	5860	8100	7810	4850	4290

CAL YR 1979 TOTAL 18596.3 MEAN 50.9 MAX 422 MIN 9.3 AC-FT 36890
WTR YR 1980 TOTAL 33829.0 MEAN 92.4 MAX 5000 MIN 19 AC-FT 67100

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-64, 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT										
02...	1540	--	38	3200	--	17.0	3	--	--	--
23...	0950	--	43	3000	8.1	3.0	2	11.2	42	910
NOV										
01...	1210	--	35	3000	8.3	3.0	2	12.5	--	1000
28...	1330	40	--	2800	8.1	.0	8	--	--	1100
DEC										
20...	0930	22	--	3000	9.1	.0	4	12.1	K20	1060
JAN										
23...	1130	30	--	2600	8.5	.5	7	10.8	K1	1100
MAR										
24...	1300	--	36	2200	8.1	1.5	10	11.8	K3	820
APR										
18...	1330	--	66	2200	8.0	9.0	220	8.9	K6	600
25...	1550	--	1250	600	--	7.0	4200	--	--	--
28...	1315	--	257	1200	--	12.0	2800	--	--	--
MAY										
01...	1300	--	135	2000	--	11.0	1600	--	--	--
14...	1050	--	113	2500	8.2	11.0	750	9.4	--	640
JUN										
04...	1015	--	73	3000	8.2	16.0	90	8.4	--	650
JUL										
09...	1145	--	198	1050	7.9	19.5	230	7.7	88	280
AUG										
07...	1045	--	70	2100	8.6	16.0	4	8.1	40	640
SEP										
04...	1055	--	76	2100	8.2	12.0	--	7.9	69	730

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT										
02...	--	--	--	--	--	--	--	--	--	--
23...	670	220	85	380	5.5	3.8	290	0	240	1400
NOV										
01...	760	260	89	400	5.5	3.3	290	0	240	1500
28...	840	280	93	390	5.2	3.8	320	0	260	1600
DEC										
20...	810	260	98	390	5.2	3.5	310	0	250	1600
JAN										
23...	870	250	120	370	4.8	4.5	300	0	250	1600
MAR										
24...	600	240	56	370	5.6	4.8	270	0	220	1400
APR										
18...	420	150	54	280	5.0	5.2	220	0	180	920
25...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
14...	350	140	67	400	7.0	5.4	350	0	290	1100
JUN										
04...	430	150	63	400	6.9	3.8	270	0	220	1100
JUL										
09...	170	70	26	110	2.9	1.8	140	0	120	360
AUG										
07...	450	170	54	250	4.3	3.0	230	0	190	840
SEP										
04...	530	170	72	250	4.1	2.8	240	0	200	950

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)
OCT									
02...	--	--	--	--	--	--	--	--	--
23...	47	.9	11	2290	3.11	266	0	.70	.60
NOV									
01...	52	.9	11	2460	3.35	232	12	.91	.70
28...	50	1.0	14	2590	3.52	280	--	1.1	1.0
DEC									
20...	43	.9	13	2560	3.48	152	2	1.1	1.2
JAN									
23...	45	.9	13	2560	3.48	207	29	.97	1.1
MAR									
24...	46	.8	13	2260	3.07	220	33	.52	.53
APR									
18...	41	.7	--	--	--	298	172	.29	2.9
25...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
MAY									
01...	--	--	--	--	--	--	--	--	--
14...	59	.9	12	2000	2.72	610	262	.12	.71
JUN									
04...	54	.9	6.6	1200	1.63	237	20	.02	.08
JUL									
09...	18	.8	9.8	670	.91	358	39	.12	.15
AUG									
07...	59	.8	10	1500	2.04	284	6	.42	.40
SEP									
04...	37	.8	13	1600	2.18	328	34	.33	.39

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
OCT									
02...	--	--	--	--	--	--	--	--	--
23...	.080	.10	.91	.99	1.7	7.5	.020	4.8	.1
NOV									
01...	.030	.04	.55	.58	1.5	6.6	.050	--	--
28...	.080	.10	.68	.76	1.9	8.2	.000	--	--
DEC									
20...	--	--	--	--	--	--	.050	--	--
JAN									
23...	.040	.05	.40	.44	1.4	6.2	.030	--	--
MAR									
24...	.080	.10	.81	.89	1.4	6.2	.070	--	--
APR									
18...	.290	.35	1.3	1.6	1.9	8.4	.190	--	--
25...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
MAY									
01...	--	--	--	--	--	--	--	--	--
14...	.060	.07	1.4	1.5	1.6	7.2	.080	14	1.2
JUN									
04...	.100	.12	.68	.78	.80	3.5	.070	--	--
JUL									
09...	.120	.15	.74	.86	.98	4.3	.080	--	--
AUG									
07...	.080	.10	1.4	1.5	1.9	8.5	.010	--	--
SEP									
04...	.000	.00	.85	.85	1.2	5.2	.010	--	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, TOTAL RECOVERABLE (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT												
23...	0950	200	200	0	3	1	2	0	0	0	400	3
NOV												
01...	1210	--	--	--	--	--	--	--	--	--	410	--
28...	1330	--	--	--	--	--	--	--	--	--	420	--
DEC												
20...	0930	--	--	--	--	--	--	--	--	--	390	--
JAN												
23...	1130	--	--	--	--	--	--	--	--	--	390	--
MAR												
24...	1300	--	--	--	--	--	--	--	--	--	390	--
APR												
18...	1330	--	--	--	--	--	--	--	--	--	370	--
MAY												
14...	1050	2000	1800	200	10	3	7	0	0	0	400	1
JUN												
04...	1015	--	--	--	--	--	--	--	--	--	400	--
JUL												
09...	1145	--	--	--	--	--	--	--	--	--	170	--
AUG												
07...	1045	--	--	--	--	--	--	--	--	--	340	--
SEP												
04...	1055	--	--	--	--	--	--	--	--	--	260	--

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT												
23...	1	2	0	0	0	5	4	1	180	--	260	2
NOV												
01...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
14...	0	1	20	20	0	16	10	6	10000	9800	200	10
JUN												
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
04...	--	--	--	--	--	--	--	--	--	--	--	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
OCT 23...	2	0	30	0	40	40	10	30	.0	.0	.0	6
NOV 01...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 24...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 14...	9	1	70	20	50	240	210	30	.2	.1	.1	17
JUN 04...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 23...	0	10	6	6	0	2	0	2	2.0	20	0	20
NOV 01...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 24...	--	--	--	--	--	--	--	--	--	--	--	--
APR 18...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 14...	0	21	20	17	3	2	1	1	1.0	60	20	40
JUN 04...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--	--	--	--	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	PCB TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)
JUN 04...	1015	.00	0	.0	.0	.00	.0	.0	0	.00
JUL 09...	1145	--	--	--	--	--	--	--	--	--
SEP 04...	1055	--	--	--	--	--	--	--	--	--

DATE	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG)
JUN 04...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0
JUL 09...	--	--	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--	--	--

DATE	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)
JUN 04...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
JUL 09...	--	--	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--	--	--

DATE	METHOXYCHLOR, TOTAL (UG/L)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	PERTHANE IN BOTTOM MATERIL (UG/KG)	TOXAPHENE, TOTAL (UG/L)
JUN 04...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0
JUL 09...	--	--	--	--	--	--	--	--	--	--
SEP 04...	--	--	--	--	--	--	--	--	--	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)	2,4-DP IN BOTTOM MATERIL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
JUN 04...	0	.00	.02	0	.00	.0	.00	0	.00	.0
JUL 09...	--	--	.00	0	.00	.0	.00	0	.00	.0
SEP 04...	--	--	--	0	--	.0	--	0	--	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA-TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA-TERIAL (UG/KG)
JUN 04...	.00	.0	.00	.0
JUL 09...	.00	.0	.00	.0
SEP 04...	--	.0	--	.0

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT 02...	1540	17.0	--	38	25	2.6	--	--	--
NOV 01...	1210	3.0	--	35	28	2.6	--	--	--
28...	1330	.0	40	--	46	5.0	--	--	--
DEC 20...	0930	.0	22	--	56	3.3	--	--	--
JAN 23...	1130	.5	30	--	49	4.0	--	--	--
MAR 24...	1300	1.5	--	36	174	17	--	--	--
APR 18...	1330	9.0	--	66	238	42	--	--	--
25...	1550	7.0	--	1250	2110	7120	68	90	98
28...	1315	12.0	--	257	1020	708	69	88	--
MAY 01...	1300	11.0	--	135	484	176	76	90	--
14...	1050	11.0	--	113	370	113	--	--	--
JUN 04...	1015	16.0	--	73	113	22	--	--	--
JUL 09...	1145	19.5	--	198	73	39	--	--	--
AUG 07...	1045	16.0	--	70	26	4.9	--	--	--
SEP 04...	1055	12.0	--	76	44	9.0	--	--	--

09216000 BIG SANDY RIVER BELOW EDEN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	NUMBER OF SAM- PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT									
02...	--	--	--	--	--	--	--	--	--
NOV									
01...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
DEC									
20...	--	--	--	--	--	--	--	--	--
JAN									
23...	--	--	--	--	--	--	--	--	--
MAR									
24...	--	--	--	--	--	--	--	--	--
APR									
18...	--	--	--	--	--	--	--	--	--
25...	99	100	--	--	--	--	--	--	--
28...	--	--	91	93	96	99	100	--	--
MAY									
01...	--	--	92	93	97	99	100	--	--
14...	--	--	--	--	--	--	--	--	--
JUN									
04...	--	--	--	--	--	--	--	12	1
JUL									
09...	--	--	--	--	--	--	--	--	--
AUG									
07...	--	--	--	--	--	--	--	--	--
SEP									
04...	--	--	--	--	--	--	--	--	--

DATE	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
OCT									
02...	--	--	--	--	--	--	--	--	--
NOV									
01...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
DEC									
20...	--	--	--	--	--	--	--	--	--
JAN									
23...	--	--	--	--	--	--	--	--	--
MAR									
24...	--	--	--	--	--	--	--	--	--
APR									
18...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
MAY									
01...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
JUN									
04...	1	6	54	72	83	93	98	98	100
JUL									
09...	--	--	--	--	--	--	--	--	--
AUG									
07...	--	--	--	--	--	--	--	--	--
SEP									
04...	--	--	--	--	--	--	--	--	--

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY

LOCATION.--Lat 41°56'43", long 109°41'04", in NE¼SW¼NW¼ sec.29, T.23 N., R.108 W., Sweetwater County, Hydrologic Unit 14040104, on left bank 0.2 mi (0.3 km) upstream from Gasson Bridge and 14.5 mi (23.3 km) southwest of Eden.

DRAINAGE AREA.--1,720 mi^2 (4,450 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,350 ft (1,935 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Natural flow of stream affected by storage reservoirs and diversions for irrigation of about 19,300 acres (78.1 km^2) above station.

AVERAGE DISCHARGE.--8 years, 74.4 ft^3/s (2.107 m^3/s), 53,900 acre-ft/yr (66.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,430 ft^3/s (210 m^3/s) Apr. 24, 1980, gage height, 10.58 ft (3.225 m), from rating curve extended above 2,000 ft^3/s (56.6 m^3/s) on basis of slope-area measurement of peak flow; minimum daily, 13 ft^3/s (0.37 m^3/s) Jan. 2, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,430 ft^3/s (210 m^3/s) Apr. 24, gage height, 10.58 ft (3.225 m); minimum daily, 18 ft^3/s (0.51 m^3/s) Jan. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	50	50	30	23	41	42	134	89	181	102	107
2	59	46	48	31	26	39	35	124	90	156	100	106
3	59	46	45	32	29	40	37	111	89	154	95	102
4	58	50	42	33	33	41	39	90	83	201	94	100
5	57	50	40	33	35	40	41	78	79	271	94	95
6	56	51	38	32	38	41	63	75	76	324	94	95
7	56	50	35	31	37	40	60	75	72	306	92	99
8	56	50	36	32	34	39	51	76	76	250	90	100
9	56	50	38	31	32	40	56	76	72	203	95	104
10	56	48	39	30	30	41	60	84	71	176	92	107
11	56	46	41	32	31	41	51	76	63	146	90	109
12	56	44	44	34	33	39	51	76	65	132	94	115
13	56	44	46	35	35	40	46	92	62	126	89	120
14	56	44	46	32	37	42	51	107	63	118	90	118
15	56	44	42	30	39	41	60	106	87	117	94	113
16	56	44	39	29	41	39	71	87	183	118	115	113
17	57	45	37	28	41	40	70	83	231	117	134	99
18	57	45	35	26	39	42	78	109	208	113	128	86
19	60	45	34	24	39	43	125	317	169	113	130	87
20	66	42	33	23	39	39	206	191	156	104	124	89
21	66	40	31	22	40	39	332	106	167	99	115	89
22	63	38	32	24	42	40	500	76	188	99	106	89
23	62	36	33	26	41	40	1730	65	229	94	99	85
24	60	34	34	28	40	46	5530	63	256	89	99	82
25	58	37	35	26	39	47	2310	72	262	84	94	78
26	57	40	34	23	38	43	935	81	253	87	95	75
27	56	39	33	22	39	40	550	79	244	92	97	74
28	56	39	31	19	40	42	310	78	234	90	100	73
29	56	42	30	18	41	44	196	84	231	92	102	71
30	54	44	29	19	---	48	163	79	226	94	102	72
31	52	---	29	21	---	45	---	83	---	95	104	---
TOTAL	1789	1323	1159	856	1051	1282	13849	3033	4374	4441	3149	2852
MEAN	57.7	44.1	37.4	27.6	36.2	41.4	462	97.8	146	143	102	95.1
MAX	66	51	50	35	42	48	5530	317	262	324	134	120
MIN	52	34	29	18	23	39	35	63	62	84	89	71
AC-FT	3550	2620	2300	1700	2080	2540	27470	6020	8680	8810	6250	5660

CAL YR 1979 TOTAL 23428 MEAN 64.2 MAX 452 MIN 13 AC-FT 46470
WTR YR 1980 TOTAL 39158 MEAN 107 MAX 5530 MIN 18 AC-FT 77670

09216050 BIG SANDY RIVER AT GASSON BRIDGE, NEAR EDEN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to January 1980 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT								
23...	1115	--	62	3900	8.2	4.0	1200	950
NOV								
01...	0945	--	52	3400	8.2	.5	1200	940
28...	1545	39	--	2800	8.0	.5	1200	880
DEC								
26...	1600	34	--	4000	8.1	.0	1600	1300
JAN								
23...	1600	26	--	3500	8.3	.0	1500	1200

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
23...	260	130	470	5.9	3.8	300	0	250	1900
NOV									
01...	270	130	470	5.9	4.0	320	0	260	1900
28...	240	130	480	6.2	3.5	390	0	320	1800
DEC									
26...	360	170	640	7.0	4.5	380	0	310	2400
JAN									
23...	280	200	690	7.7	4.5	380	0	310	2500

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT								
23...	49	1.1	11	2980	4.05	499	.40	.020
NOV								
01...	47	1.1	11	2990	4.07	420	.60	.110
28...	57	1.1	11	2910	3.96	306	.70	.000
DEC								
26...	45	1.4	14	3830	5.21	352	.81	.020
JAN								
23...	60	1.8	14	3940	5.36	277	.85	.020

09216300 GREEN RIVER AT BIG ISLAND, NEAR GREEN RIVER, WY

LOCATION.--Lat 41°45'52", long 109°44'05", in SW¼SE¼ sec.26, T.21 N., R.109 W., Sweetwater County, Hydrologic Unit 14040103, at Big Island bridge, 6.3 mi (10.1 km) downstream from Dry Creek, 9.5 mi (15.3 km) downstream from Big Sandy River, and 21 mi (34 km) northwest of town of Green River.

DRAINAGE AREA.--7,300 mi^2 (18,900 km^2), approximately.

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT 23...	1210	813	670	8.4	8.0	230	120	59	21	57	1.6	1.5
DEC 07...	0830	965	560	8.3	.5	190	59	50	17	45	1.4	2.5
28...	0930	970	600	7.9	.5	230	82	63	17	40	1.2	2.0
FEB 12...	1415	608	720	8.3	.0	290	130	73	25	54	1.4	2.3
MAR 12...	0830	619	500	8.2	.0	270	98	66	25	67	1.8	2.3
APR 17...	1500	1540	650	8.3	8.0	230	74	63	17	46	1.3	2.6
MAY 14...	1415	1810	710	8.4	12.0	230	82	57	22	68	1.9	3.4
JUN 04...	1430	5230	510	8.4	13.0	180	57	52	11	23	.8	2.3
JUL 11...	0915	4820	370	7.9	15.0	150	38	40	12	16	.6	1.6
AUG 04...	1500	1800	500	8.5	17.0	180	59	51	13	27	.9	1.1
SEP 04...	1500	1250	500	8.7	19.0	200	78	48	20	36	1.1	1.6

DATE	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT 23...	140	0	120	210	7.8	.4	3.5	429	.58	942	.00	.020
DEC 07...	160	0	130	140	6.5	.4	4.4	345	.47	899	.02	.000
28...	180	0	150	140	6.0	.2	6.5	365	.50	956	.02	.020
FEB 12...	190	3	160	220	9.5	.3	7.2	489	.67	803	.19	.000
MAR 12...	210	0	170	200	11	.3	5.7	478	.65	799	1.1	.040
APR 17...	190	0	160	170	10	.3	.0	400	.54	1660	<.01	.840
MAY 14...	180	0	150	220	12	.5	6.2	480	.65	2350	.07	.100
JUN 04...	150	0	120	89	5.1	.3	7.0	260	.35	3670	.22	.040
JUL 11...	130	3	110	58	4.1	.2	11	210	.29	2730	.02	.010
AUG 04...	130	8	120	110	4.8	.4	6.1	300	.41	1460	2.4	.010
SEP 04...	130	9	120	150	5.3	.4	6.8	350	.48	1180	.13	.030

09216527 SEPARATION CREEK NEAR RINER, WY

LOCATION.--Lat 41°39'38", long 107°33'28", in NE¼SE¼SW¼ sec.32, T.20 N., R.90 W., Sweetwater County, Hydrologic Unit 14040200, on left bank 0.1 mi (0.2 km) downstream from unnamed tributary, 1.5 mi (2.4 km) upstream from wooden bridge, 5.0 mi (8.0 km) south of Riner, and 6.5 mi (10.5 km) south of Interstate Highway 80.

DRAINAGE AREA.--55.3 mi^2 (143.2 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,810 ft (2,076 m), from topographic map.

REMARKS.--Records good except those below 10 ft^3/s (0.28 m^3/s), which are fair. No diversion above station.

AVERAGE DISCHARGE.--5 years, 2.10 ft^3/s (0.059 m^3/s), 1,520 acre-ft/yr (1.87 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 141 ft^3/s (3.99 m^3/s) about Apr. 20, 1980, gage height, 5.57 ft (1.698 m), from floodmarks; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 18 ft^3/s (0.510 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
aApr. 20	0130	*141	3.99	b5.57	1.698	May 18	0500	86	2.44	5.04	1.536
May 11	1030	74	2.10	4.90	1.494						

a-about.
b-from floodmarks.

No flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	25	16	.92	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	25	15	.92	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	24	13	.92	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	28	10	1.6	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	27	9.4	1.2	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	28	8.8	.77	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	35	8.5	.48	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	36	8.2	.50	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	38	7.6	.50	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	55	6.9	.56	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	66	6.2	.44	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	53	5.4	.22	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	43	4.6	1.3	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	32	4.1	1.4	.00	.00
15	.00	.00	.00	.00	.00	.00	.09	26	3.6	.88	.00	.00
16	.00	.00	.00	.00	.00	.00	16	27	3.6	.34	.00	.00
17	.00	.00	.00	.00	.00	.00	42	46	3.6	.02	.00	.00
18	.00	.00	.00	.00	.00	.00	42	62	3.5	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	57	35	3.2	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	76	28	3.2	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	69	27	3.0	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	64	27	2.9	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	60	29	2.8	.00	.02	.00
24	.00	.00	.00	.00	.00	.00	57	30	2.4	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	32	30	2.1	.00	.03	.00
26	.00	.00	.00	.00	.00	.00	28	27	1.6	.00	1.9	.00
27	.00	.00	.00	.00	.00	.00	23	22	1.6	.00	.34	.00
28	.00	.00	.00	.00	.00	.00	21	18	1.3	.00	.01	.00
29	.00	.00	.00	.00	.00	.00	22	16	1.1	.00	.00	.00
30	.00	.00	.00	.00	---	.00	22	16	1.1	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	16	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	631.09	997	164.3	12.97	2.30	.00
MEAN	.000	.000	.000	.000	.000	.000	21.0	32.2	5.48	.42	.074	.000
MAX	.00	.00	.00	.00	.00	.00	76	66	16	1.6	1.9	.00
MIN	.00	.00	.00	.00	.00	.00	.00	16	1.1	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	1250	1980	326	26	4.6	.00

CAL YR 1979 TOTAL 547.99 MEAN 1.50 MAX 19 MIN .00 AC-FT 1090
WTR YR 1980 TOTAL 1807.66 MEAN 4.94 MAX 76 MIN .00 AC-FT 3590

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT DISCHARGE: October 1975 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler from April 1976 to September 1981 (discontinued).

REMARKS.--No flow observed many days.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 27,800 mg/L Aug. 25, 1977; minimum daily mean, no flow for many days each year.
SEDIMENT LOADS: Maximum daily, 106 tons (96 tonnes) May 18, 1980; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--
SEDIMENT CONCENTRATIONS: Maximum daily mean, 592 mg/L May 18; minimum daily mean, no flow for many days.
SEDIMENT LOADS: Maximum daily, 106 tons (96 tonnes) May 18; minimum daily, 0 tons on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
APR 24...	1230	62	548	7.8	4.5	8.9	3.4	180	92	32	25
MAY 16...	1200	25	690	8.6	10.0	9.2	--	300	120	56	38
JUN 02...	1330	14	750	8.3	13.0	8.2	2.2	330	120	61	43
JUL 03...	1340	.92	1200	8.3	18.0	7.8	--	500	200	78	73

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
APR 24...	32	1.0	4.4	91	160	5.1	.2	5.4	319	.43
MAY 16...	36	.9	3.8	180	180	7.1	.3	10	440	.60
JUN 02...	36	.9	3.8	210	160	7.5	.3	10	448	.61
JUL 03...	93	1.8	3.9	300	350	9.6	.3	6.4	795	1.08

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)
APR 24...	53.4	.14	.220	.27	1.7	1.9	2.0	9.0	.710	2.2
MAY 16...	29.7	.11	.030	.04	2.1	2.1	2.2	9.8	.190	.58
JUN 02...	16.9	.06	.120	.15	1.3	1.4	1.5	6.5	.110	.34
JUL 03...	1.97	.06	.010	.01	.48	.49	.55	2.4	.060	.18

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)
APR 24...	1230	4100	--	--	6	--	--	0	--	70	12	--
MAY 16...	1200	--	--	--	--	--	--	--	--	110	--	--
JUN 02...	1330	5000	5000	40	1	0	2	0	<1	100	7	3
JUL 03...	1340	--	--	--	--	--	--	--	--	130	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)
APR 24...	--	20	--	--	24	--	--	21000	21000	70	23	--
MAY 16...	--	--	--	--	--	--	--	--	--	30	--	--
JUN 02...	4	0	0	0	10	1	9	2000	2000	20	0	0
JUL 03...	--	--	--	--	--	--	--	--	--	30	--	--

DATE	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
APR 24...	--	40	--	--	430	--	--	.0	--	--	1
MAY 16...	--	--	--	--	--	--	--	--	--	--	--
JUN 02...	6	30	0	30	90	80	10	.0	.0	.0	0
JUL 03...	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYBDENUM, DISSOLVED (UG/L AS MO)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	NICKEL, DISSOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
APR 24...	--	17	--	--	1	--	--	--	130	--	--
MAY 16...	--	--	--	--	--	--	--	--	--	--	--
JUN 02...	<10	0	0	4	0	0	0	2.0	60	40	20
JUL 03...	--	--	--	--	--	--	--	--	--	--	--

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.00			.00			.00		
2	.00			.00			.00		
3	.00			.00			.00		
4	.00			.00			.00		
5	.00			.00			.00		
6	.00			.00			.00		
7	.00			.00			.00		
8	.00			.00			.00		
9	.00			.00			.00		
10	.00			.00			.00		
11	.00			.00			.00		
12	.00			.00			.00		
13	.00			.00			.00		
14	.00			.00			.00		
15	.00			.00			.00		
16	.00			.00			.00		
17	.00			.00			.00		
18	.00			.00			.00		
19	.00			.00			.00		
20	.00			.00			.00		
21	.00			.00			.00		
22	.00			.00			.00		
23	.00			.00			.00		
24	.00			.00			.00		
25	.00			.00			.00		
26	.00			.00			.00		
27	.00			.00			.00		
28	.00			.00			.00		
29	.00			.00			.00		
30	.00			.00			.00		
31	.00			---			.00		
TOTAL	0.00			0.00			0.00		
		JANUARY			FEBRUARY			MARCH	
1	.00			.00			.00		
2	.00			.00			.00		
3	.00			.00			.00		
4	.00			.00			.00		
5	.00			.00			.00		
6	.00			.00			.00		
7	.00			.00			.00		
8	.00			.00			.00		
9	.00			.00			.00		
10	.00			.00			.00		
11	.00			.00			.00		
12	.00			.00			.00		
13	.00			.00			.00		
14	.00			.00			.00		
15	.00			.00			.00		
16	.00			.00			.00		
17	.00			.00			.00		
18	.00			.00			.00		
19	.00			.00			.00		
20	.00			.00			.00		
21	.00			.00			.00		
22	.00			.00			.00		
23	.00			.00			.00		
24	.00			.00			.00		
25	.00			.00			.00		
26	.00			.00			.00		
27	.00			.00			.00		
28	.00			.00			.00		
29	.00			.00			.00		
30	.00			---			.00		
31	.00			---			.00		
TOTAL	0.00			0.00			0.00		

09216527 SEPARATION CREEK NEAR RINER, WY--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	.00	---	.00	25	358	24	16	128	5.5
2	.00	---	.00	25	304	20	15	124	5.0
3	.00	---	.00	24	310	20	13	154	5.4
4	.00	---	.00	28	420	32	10	164	4.4
5	.00	---	.00	27	230	17	9.4	148	3.8
6	.00	---	.00	28	240	18	8.8	158	3.8
7	.00	---	.00	35	342	32	8.5	136	3.1
8	.00	---	.00	36	274	27	8.2	126	2.8
9	.00	---	.00	38	254	26	7.6	124	2.5
10	.00	---	.00	55	505	75	6.9	160	3.0
11	.00	---	.00	66	548	98	6.2	148	2.5
12	.00	---	.00	53	284	41	5.4	130	1.9
13	.00	---	.00	43	238	28	4.6	110	1.4
14	.00	---	.00	32	260	22	4.1	100	1.1
15	.09	---	.01	26	256	18	3.6	100	.97
16	16	---	8.8	27	347	25	3.6	108	1.0
17	42	---	33	46	582	72	3.6	92	.89
18	42	---	33	62	592	106	3.5	94	.89
19	57	---	50	35	260	25	3.2	96	.83
20	76	---	75	28	255	19	3.2	94	.81
21	69	---	66	27	228	17	3.0	90	.73
22	64	---	59	27	250	18	2.9	82	.64
23	60	---	54	29	236	18	2.8	84	.64
24	57	---	50	30	212	17	2.4	82	.53
25	32	---	23	30	180	15	2.1	80	.45
26	28	---	19	27	160	12	1.6	76	.33
27	23	---	14	22	170	10	1.6	70	.30
28	21	---	12	18	176	8.6	1.3	70	.25
29	22	---	14	16	170	7.3	1.1	68	.20
30	22	320	19	16	146	6.3	1.1	66	.20
31	---	---	---	16	194	8.4	---	---	---
TOTAL	631.09	---	529.81	997	---	882.6	164.3	---	55.86
		JULY			AUGUST			SEPTEMBER	
1	.92	53	.13	.00		.00	.00		
2	.92	184	.46	.00		.00	.00		
3	.92	98	.24	.00		.00	.00		
4	1.6	88	.38	.00		.00	.00		
5	1.2	78	.25	.00		.00	.00		
6	.77	60	.12	.00		.00	.00		
7	.48	44	.06	.00		.00	.00		
8	.50	54	.07	.00		.00	.00		
9	.50	68	.09	.00		.00	.00		
10	.56	64	.10	.00		.00	.00		
11	.44	56	.07	.00		.00	.00		
12	.22	46	.03	.00		.00	.00		
13	1.3	117	.55	.00		.00	.00		
14	1.4	126	.48	.00		.00	.00		
15	.88	64	.15	.00		.00	.00		
16	.34	80	.07	.00		.00	.00		
17	.02	---	.00	.00		.00	.00		
18	.00	---	.00	.00		.00	.00		
19	.00	---	.00	.00		.00	.00		
20	.00	---	.00	.00		.00	.00		
21	.00	---	.00	.00		.00	.00		
22	.00	---	.00	.00		.00	.00		
23	.00	---	.00	.02		.00	.00		
24	.00	---	.00	.00		.00	.00		
25	.00	---	.00	.03		.00	.00		
26	.00	---	.00	1.9		.47	.00		
27	.00	---	.00	.34		.04	.00		
28	.00	---	.00	.01		.00	.00		
29	.00	---	.00	.00		.00	.00		
30	.00	---	.00	.00		.00	.00		
31	.00	---	.00	.00		.00	---		
TOTAL	12.97	---	3.25	2.30		0.51	0.00		
YEAR	1807.66		1472.03						

09216545 BITTER CREEK NEAR BITTER CREEK, WY

LOCATION.--Lat 41°29'35", long 108°30'47", in NW¼NW¼SE¼ sec.36, T.18 N., R.99 W., Sweetwater County, Hydrologic Unit 14040105, on left bank 2.1 mi (3.4 km) downstream from Red Wash and 4.8 mi (7.7 km) southeast of town of Bitter Creek.

DRAINAGE AREA.--308 mi^2 (798 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,760 ft (2,060 m), from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--5 years, 4.09 ft^3/s (0.166 m^3/s), 2,960 acre-ft/yr (3.65 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 640 ft^3/s (18.1 m^3/s) July 25, 1977, gage height, 8.80 ft (2.682 m); no flow for many days in 1977 and 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 346 ft^3/s (9.80 m^3/s) May 18, gage height, 7.80 ft (2.377 m); minimum daily, 0.70 ft^3/s (0.020 m^3/s) Jan. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.3	.90	.95	.90	5.7	4.5	8.4	4.7	6.9	5.4	2.7
2	1.1	1.4	1.0	1.0	1.2	5.4	2.9	6.6	4.2	7.4	6.0	3.0
3	1.1	1.4	1.1	1.0	1.5	6.5	2.2	3.9	5.6	8.2	5.2	3.2
4	1.1	1.5	1.2	1.1	1.6	7.2	3.5	4.2	7.1	7.4	4.6	3.0
5	1.1	1.6	1.3	1.2	1.5	6.6	17	6.1	6.2	7.1	4.2	3.3
6	1.1	1.7	1.2	1.1	1.4	6.2	100	4.0	7.1	5.8	3.9	3.4
7	1.2	1.8	1.2	1.2	1.3	6.5	113	7.8	6.4	5.6	4.2	3.4
8	1.2	2.0	1.3	1.1	1.2	7.4	69	26	7.3	6.1	4.5	3.3
9	1.1	1.9	1.4	1.1	1.1	8.5	58	24	6.9	6.2	4.7	3.4
10	1.3	1.8	1.5	1.0	1.4	9.0	119	10	6.6	6.1	4.0	3.6
11	1.2	1.9	1.4	1.0	1.5	8.0	71	16	5.3	5.3	3.7	3.7
12	1.2	2.1	1.3	1.1	1.5	9.0	27	44	4.7	6.2	4.2	3.6
13	1.3	1.9	1.3	1.2	1.6	10	18	81	5.6	5.2	4.2	3.6
14	1.3	1.7	1.4	1.2	1.7	10	37	16	5.6	4.2	4.7	3.0
15	1.3	1.5	1.5	1.1	1.8	9.0	106	9.2	5.6	5.3	4.7	3.2
16	1.3	1.4	1.6	1.0	1.7	11	148	7.4	6.2	5.2	5.0	3.6
17	1.3	1.3	1.5	1.0	1.6	13	123	160	7.6	5.6	5.0	3.3
18	1.3	1.2	1.6	.94	1.8	12	134	225	6.7	5.9	4.5	3.2
19	1.3	1.1	1.6	.90	2.3	11	156	115	6.7	6.2	4.7	3.0
20	1.7	1.0	1.5	.95	3.0	11	122	46	6.7	6.2	4.7	3.9
21	1.8	.90	1.5	.96	4.5	12	109	9.0	6.4	5.6	4.0	3.7
22	1.6	.81	1.4	.95	4.0	16	90	5.2	6.4	6.2	3.4	3.7
23	1.5	.77	1.4	1.0	3.5	14	76	3.9	6.1	5.9	3.3	3.4
24	1.5	.81	1.3	.95	3.3	13	112	3.0	5.8	5.9	3.3	3.3
25	6.1	.83	1.3	.90	3.2	14	44	3.9	5.8	6.4	7.2	3.4
26	12	.80	1.2	.85	3.4	15	20	4.3	5.8	5.8	7.4	3.0
27	5.3	.74	1.2	.80	3.9	16	13	2.9	5.6	5.3	3.0	3.2
28	1.7	.74	1.1	.75	4.5	13	11	5.9	6.1	5.6	2.9	3.6
29	1.5	.80	1.0	.70	6.0	10	8.0	3.4	6.4	5.2	2.7	3.7
30	1.4	.86	.90	.75	---	7.0	9.6	3.9	6.4	5.5	2.6	3.6
31	1.3	---	.90	.80	---	5.5	---	4.2	---	5.5	2.6	---
TOTAL	60.3	39.56	40.00	30.55	67.90	308.5	1923.7	870.2	183.6	185.0	134.5	101.0
MEAN	1.95	1.32	1.29	.99	2.34	9.95	64.1	28.1	6.12	5.97	4.34	3.37
MAX	12	2.1	1.6	1.2	6.0	16	156	225	7.6	8.2	7.4	3.9
MIN	1.1	.74	.90	.70	.90	5.4	2.2	2.9	4.2	4.2	2.6	2.7
AC-FT	120	78	79	61	135	612	3820	1730	364	367	267	200

CAL YR 1979 TOTAL 1259.77 MEAN 3.45 MAX 110 MIN .00 AC-FT 2500
WTR YR 1980 TOTAL 3944.81 MEAN 10.8 MAX 225 MIN .70 AC-FT 7820

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
03...	1155	--	1.0	1700	--	7.0	180	--	--	--	--
22...	1600	--	1.4	1390	8.7	6.0	--	10.6	3.0	220	0
NOV											
07...	1120	1.8	--	1580	--	.0	230	--	--	--	--
27...	1400	.74	--	2300	8.3	.0	--	11.7	2.7	200	0
DEC											
03...	1030	1.1	--	1700	--	1.0	120	--	--	--	--
17...	1530	1.5	--	1800	8.2	.0	--	11.6	4.1	240	0
27...	1115	1.2	--	2100	--	.0	280	--	--	--	--
JAN											
21...	1515	.96	--	1520	8.3	.0	--	11.9	2.6	250	0
FEB											
07...	1400	--	1.3	1700	--	.0	320	--	--	--	--
26...	1500	3.4	--	1060	7.9	1.0	--	10.4	4.0	140	0
MAR											
19...	1115	11	--	600	7.8	4.0	550	10.8	2.7	120	0
APR											
15...	1445	--	157	280	8.5	11.0	1600	8.0	4.6	250	160
MAY											
05...	1230	--	4.7	1300	8.3	11.5	1500	8.4	--	210	28
JUN											
02...	1345	--	4.7	1825	8.3	12.5	50	10.0	2.2	320	30
JUL											
14...	1150	--	4.0	1400	8.3	19.0	40	7.4	1.8	280	0
AUG											
06...	1315	--	3.9	1250	8.7	20.5	40	8.1	1.0	270	0
SEP											
02...	1145	--	3.4	1500	8.4	15.5	30	8.7	1.3	280	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
22...	40	28	250	7.4	2.3	300	440	21	.7	9.1	972
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	38	25	480	15	3.2	380	760	53	1.3	8.2	1600
DEC											
03...	--	--	--	--	--	--	--	--	--	--	--
17...	47	30	330	9.3	2.3	340	550	38	.8	13	1220
27...	--	--	--	--	--	--	--	--	--	--	--
JAN											
21...	49	30	330	9.2	2.5	330	580	33	.8	12	1240
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
26...	33	15	180	6.5	3.1	170	330	19	.5	8.1	691
MAR											
19...	31	10	90	3.6	2.8	120	170	8.8	.3	6.6	392
APR											
15...	63	22	58	1.6	5.5	91	56	4.9	.3	9.9	295
MAY											
05...	52	19	200	6.0	3.7	180	390	25	.5	8.3	807
JUN											
02...	64	39	270	6.6	2.2	290	520	30	.5	10	1110
JUL											
14...	53	37	210	5.4	2.1	290	420	17	.7	11	925
AUG											
06...	45	38	200	5.3	3.7	270	420	25	.5	10	905
SEP											
02...	50	38	210	5.5	2.6	290	450	13	.5	10	949

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
22...	1.32	3.67	.25	.090	.11	.91	1.0	1.3	5.5	.230	.71
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	2.18	3.20	.33	.060	.07	.57	.63	.96	4.3	.210	.64
DEC											
03...	--	--	--	--	--	--	--	--	--	--	--
17...	1.66	4.94	.21	.230	.28	.97	1.2	1.4	6.2	.060	.18
27...	--	--	--	--	--	--	--	--	--	--	--
JAN											
21...	1.69	--	.29	.230	.28	.47	.70	.99	4.4	.180	.55
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
26...	.94	6.34	.56	.180	.22	1.3	1.5	2.1	9.1	.200	.61
MAR											
19...	.53	11.6	.18	.060	.07	.93	.99	1.2	5.2	.400	1.2
APR											
15...	.40	125	.16	.280	.34	3.0	3.3	3.5	15	3.400	10
MAY											
05...	1.10	10.2	.95	.460	.56	1.9	2.4	3.4	15	1.600	4.9
JUN											
02...	1.51	14.1	.10	.010	.01	.62	.63	.73	3.2	.070	.21
JUL											
14...	1.26	9.99	.03	.000	.00	1.2	1.2	1.2	5.4	.080	.25
AUG											
06...	1.23	9.53	.08	.040	.05	1.1	1.1	1.2	5.2	.060	.18
SEP											
02...	1.29	8.71	.00	.000	.00	.44	.44	.44	1.9	.070	.21

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
OCT												
22...	1600	14000	14000	20	6	4	2	0	0	<1	10	3
NOV												
27...	1400	--	--	--	--	--	--	--	--	--	270	--
DEC												
17...	1530	--	--	--	--	--	--	--	--	--	180	--
JAN												
21...	1515	4500	--	--	3	--	--	0	--	--	180	3
FEB												
26...	1500	--	--	--	--	--	--	--	--	--	120	--
MAR												
19...	1115	--	--	--	--	--	--	--	--	--	130	--
MAY												
05...	1230	--	--	--	--	--	--	--	--	--	130	--
JUN												
02...	1345	--	--	--	--	--	--	--	--	--	190	--
JUL												
14...	1150	1600	--	--	2	--	--	0	--	--	150	1
AUG												
06...	1315	--	--	--	--	--	--	--	--	--	140	--
SEP												
02...	1145	--	--	--	--	--	--	--	--	--	160	--

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)
OCT												
22...	1	2	20	20	0	18	13	5	1100	--	60	8
NOV												
27...	--	--	--	--	--	--	--	--	--	--	270	--
DEC												
17...	--	--	--	--	--	--	--	--	--	--	60	--
JAN												
21...	--	--	20	--	--	19	--	--	5800	5800	40	10
FEB												
26...	--	--	--	--	--	--	--	--	--	--	100	--
MAR												
19...	--	--	--	--	--	--	--	--	--	--	150	--
MAY												
05...	--	--	--	--	--	--	--	--	--	--	210	--
JUN												
02...	--	--	--	--	--	--	--	--	--	--	40	--
JUL												
14...	--	--	10	--	--	8	--	--	2100	2100	40	7
AUG												
06...	--	--	--	--	--	--	--	--	--	--	340	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	220	--

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
OCT												
22...	8	0	50	10	40	140	130	6	.1	.1	.0	4
NOV												
27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
21...	--	--	50	--	--	120	--	--	.1	--	--	1
FEB												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
05...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
14...	--	--	40	--	--	60	--	--	.2	--	--	9
AUG												
06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 22...	0	<10	38	38	0	1	0	1	3.0	40	30	9
NOV 27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 21...	--	--	8	--	--	1	--	--	--	160	--	--
FEB 26...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 05...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 02...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 14...	--	--	5	--	--	1	--	--	--	50	--	--
AUG 06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 02...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)
OCT 22...	1600	<15	26	<5.8	16	<6.0	16	.08	5.3	<10	18

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
OCT 03...	1155	7.0	--	1.0	151	.41	--	--
NOV 07...	1120	.0	1.8	--	216	1.0	--	--
DEC 03...	1030	1.0	1.1	--	173	.51	--	--
27...	1115	.0	1.2	--	266	.86	--	--
FEB 07...	1400	.0	--	1.3	312	1.1	--	--
MAR 19...	1115	4.0	11	--	564	17	--	--
APR 15...	1445	11.0	--	157	5740	2430	66	78
MAY 05...	1230	11.5	--	4.7	2720	35	90	99
JUN 02...	1345	12.5	--	4.7	202	2.6	--	--
JUL 14...	1150	19.0	--	4.0	129	1.4	--	--
AUG 06...	1315	20.5	--	3.9	106	1.1	--	--
SEP 02...	1145	15.5	--	3.4	96	.88	--	--

09216545 BITTER CREEK NEAR BITTER CREEK, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT									
03...	--	--	--	--	--	--	--	--	--
NOV									
07...	--	--	--	--	--	--	--	--	--
DEC									
03...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
FEB									
07...	--	--	--	--	--	--	--	--	--
MAR									
19...	--	--	--	--	--	--	--	--	--
APR									
15...	86	89	95	100	--	--	--	--	--
MAY									
05...	--	--	--	--	99	99	100	--	--
JUN									
02...	--	--	--	--	--	--	--	--	--
JUL									
14...	--	--	--	--	--	--	--	--	--
AUG									
06...	--	--	--	--	--	--	--	--	--
SEP									
02...	--	--	--	--	--	--	--	4	12

DATE	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
OCT								
03...	--	--	--	--	--	--	--	--
NOV								
07...	--	--	--	--	--	--	--	--
DEC								
03...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
FEB								
07...	--	--	--	--	--	--	--	--
MAR								
19...	--	--	--	--	--	--	--	--
APR								
15...	--	--	--	--	--	--	--	--
MAY								
05...	--	--	--	--	--	--	--	--
JUN								
02...	--	--	--	--	--	--	--	--
JUL								
14...	--	--	--	--	--	--	--	--
AUG								
06...	--	--	--	--	--	--	--	--
SEP								
02...	23	78	93	94	96	98	99	100

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY

LOCATION.--Lat 41°38'52", long 108°59'50", in SW¼SE¼SW¼ sec.2, T.19 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on right bank at upstream side of bridge on county road, 0.9 mi (1.4 km) southwest of Salt Wells, 2.3 mi (3.7 km) upstream from Salt Wells Creek, and 12 mi (19 km) east of Rock Springs.

DRAINAGE AREA.--836 mi² (2,165 km²), of which 6.8 mi² (17.6 km²) is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,330 ft (1,929 m), from topographic map.

REMARKS.--Records poor. No gage-height record Dec. 30 to Feb. 12. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 888 ft³/s (25.1 m³/s) Aug. 10, 1979, gage height, 5.68 ft (1.731 m); maximum gage height, 6.93 ft (2.112 m) Feb. 21, 1980 (from floodmarks); no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 280 ft³/s (7.93 m³/s) May 19, gage height, 4.72 ft (1.439 m); maximum gage height, 6.93 ft (2.112 m) Feb. 21 (backwater from ice); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.50	.00	.00	.15	56	7.0	14	3.9	.60	.15	.00
2	.04	.70	.00	.00	.40	51	8.0	11	4.9	.80	.40	.00
3	.24	.90	.00	.00	1.0	47	12	12	5.2	2.0	1.0	.00
4	.20	1.1	.00	.01	1.5	55	15	9.4	4.9	3.5	.60	.00
5	.13	1.2	.00	.02	2.0	65	20	7.6	3.9	6.0	.40	.00
6	.13	1.3	.01	.01	2.0	59	15	7.6	3.2	6.0	.25	.00
7	.13	1.8	.02	.00	1.7	45	26	14	2.6	3.5	.10	.00
8	.13	1.7	.02	.00	1.6	35	92	30	4.9	1.5	21	.00
9	.13	1.6	.03	.00	1.3	25	142	36	3.9	.90	21	.00
10	.10	1.7	.03	.00	1.1	15	108	59	2.3	.70	4.8	.01
11	.10	2.0	.02	.00	.90	16	79	63	2.1	.80	13	.60
12	.16	2.0	.00	.01	.80	17	125	60	2.3	.80	5.4	18
13	.20	1.9	.00	.02	.90	15	80	65	2.3	.70	2.1	1.9
14	.20	2.0	.01	.05	1.1	16	43	64	2.1	.57	1.6	.70
15	.20	2.2	.02	.10	1.5	17	32	88	2.3	.48	1.3	.53
16	.24	1.5	.02	.08	2.5	18	44	91	3.5	.48	.58	.33
17	.24	1.0	.01	.04	5.0	19	117	60	3.2	.43	.20	.24
18	.28	.70	.00	.02	10	16	156	74	6.6	.48	.20	.12
19	.33	.45	.00	.02	20	19	147	224	8.2	.70	.13	.00
20	.77	.30	.00	.03	45	20	158	158	8.8	.90	.10	.00
21	9.8	.20	.00	.03	92	22	176	124	9.4	.83	.01	.19
22	15	.15	.00	.03	75	24	170	51	8.8	.83	.00	.08
23	3.1	.20	.00	.02	62	26	115	17	5.0	.43	.01	.57
24	1.8	.20	.00	.01	55	24	85	11	3.0	.28	.01	.92
25	1.2	.10	.00	.00	45	26	65	5.4	2.0	.16	.30	.16
26	1.1	.02	.00	.00	40	27	80	3.5	1.2	.02	.56	.13
27	.80	.01	.00	.00	46	25	55	2.4	.80	.00	8.7	.10
28	.60	.00	.00	.00	56	19	30	2.1	.60	.04	.49	.10
29	.50	.00	.00	.00	63	15	26	4.4	.50	.02	.68	.13
30	.45	.00	.00	.00	---	12	17	3.9	.50	.01	.07	.10
31	.45	---	.00	.05	---	9.0	---	3.5	---	.05	.01	---
TOTAL	38.75	27.43	.19	.55	634.45	855.0	2245.0	1375.8	112.90	34.51	85.15	24.91
MEAN	1.25	.91	.006	.018	21.9	27.6	74.8	44.4	3.76	1.11	2.75	.83
MAX	15	2.2	.03	.10	92	65	176	224	9.4	6.0	21	18
MIN	.00	.00	.00	.00	.15	9.0	7.0	2.1	.50	.00	.00	.00
AC-FT	77	54	.4	1.1	1260	1700	4450	2730	224	68	169	49

CAL YR 1979 TOTAL 2633.29 MEAN 7.21 MAX 411 MIN .00 AC-FT 5220
WTR YR 1980 TOTAL 5434.64 MEAN 14.8 MAX 224 MIN .00 AC-FT 10780

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
03...	0830	--	.38	8000	--	3.0	35	--	--	--	--
26...	1440	--	1.1	3750	8.4	9.0	--	9.8	2.8	960	760
NOV											
07...	1410	1.8	--	6000	--	.0	650	--	--	--	--
27...	1610	.01	--	7000	8.0	.0	--	10.6	2.1	2000	1500
DEC											
17...	1700	--	.01	>8000	8.1	.0	--	11.6	2.4	5600	4700
JAN											
21...	1645	--	.03	2180	7.9	.0	--	11.2	8.4	840	640
FEB											
07...	1750	1.7	--	2800	--	.0	70	--	--	--	--
21...	1200	92	--	1300	--	.5	3000	--	--	--	--
26...	1630	40	--	1290	8.1	1.0	--	11.2	6.6	350	240
MAR											
03...	1055	47	--	600	--	.0	3500	--	--	--	--
19...	1630	19	--	800	8.3	3.0	6800	11.2	5.4	190	79
APR											
07...	1215	--	26	2000	--	.0	16000	--	--	--	--
17...	1300	--	128	1000	8.6	9.5	64000	9.0	5.5	160	13
29...	1150	--	22	1450	--	12.5	7000	--	--	--	--
MAY											
06...	1200	--	7.7	2800	8.6	14.5	200	9.7	--	660	420
JUN											
04...	1200	--	6.6	3000	8.6	20.0	330	7.5	3.6	820	490
JUL											
14...	1530	--	.58	5000	8.4	23.0	15	6.3	1.7	1000	730
AUG											
06...	0910	--	24	7000	8.8	11.5	6	8.4	1.0	1400	1000
26...	1230	--	.28	6000	8.5	22.0	55	7.6	3.0	1300	1100
SEP											
12...	0925	--	18	2000	--	11.0	--	--	--	--	--

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
26...	120	160	480	6.7	10	200	1300	360	.5	3.4	2550
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	240	330	890	8.8	18	490	2300	720	.9	3.0	4800
27...	--	--	--	--	--	--	--	--	--	--	--
DEC											
17...	590	1000	2200	13	2.7	850	6400	1600	1.1	12	12300
JAN											
21...	120	130	250	3.8	11	200	910	130	.6	6.1	1680
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
26...	63	46	140	3.3	6.6	110	450	66	.3	4.7	843
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
19...	33	26	110	3.5	3.6	110	230	56	.3	4.1	530
APR											
07...	--	--	--	--	--	--	--	--	--	--	--
17...	34	19	120	4.1	2.7	150	260	42	.5	6.6	576
29...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	120	87	350	5.9	6.4	240	800	240	.5	2.4	1750
JUN											
04...	130	120	520	7.9	8.4	330	1100	380	.6	7.6	2470
JUL											
14...	130	170	700	9.5	8.6	290	1500	450	1.0	1.9	3140
AUG											
06...	130	250	1200	14	11	310	2400	830	.8	.4	5010
26...	140	240	980	12	10	260	1900	600	.5	1.3	4030
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
26...	3.47	7.57	.27	.170	.21	1.1	1.3	1.6	7.0	.090	.28
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
27...	6.53	--	.37	.080	.10	.76	.84	1.2	5.4	.030	.09
27...	--	--	--	--	--	--	--	--	--	--	--
DEC											
17...	16.7	.33	4.1	.450	.54	1.7	2.1	6.2	27	.010	.03
JAN											
21...	2.28	.14	2.1	.200	.24	.90	1.1	3.2	14	.190	.58
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
26...	1.15	91.0	2.0	.420	.51	4.3	4.7	6.7	30	1.400	4.3
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
19...	.72	27.2	.30	.200	.24	12	12	12	54	3.600	11
APR											
07...	--	--	--	--	--	--	--	--	--	--	--
17...	.78	199	.31	.130	.16	16	16	16	72	2.400	7.4
29...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	2.38	36.2	.18	.000	.00	2.1	2.1	2.3	10	.400	1.2
JUN											
04...	3.36	44.0	.05	.070	.08	2.9	3.0	3.1	14	.580	1.8
JUL											
14...	4.27	4.92	.04	.010	.01	1.3	1.3	1.3	5.9	.060	.18
AUG											
06...	6.81	325	.00	.030	.04	1.1	1.1	1.1	4.9	.030	.09
26...	5.48	3.05	.00	.000	.00	1.3	1.3	1.3	5.8	.000	.00
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT												
26...	1440	1300	1300	0	1	0	1	0	0	0	320	3
NOV												
27...	1600	--	--	--	--	--	--	--	--	--	590	--
DEC												
17...	1700	--	--	--	--	--	--	--	--	--	1100	--
JAN												
21...	1645	0	--	--	2	--	--	0	--	--	310	6
FEB												
26...	1630	--	--	--	--	--	--	--	--	--	240	--
MAR												
19...	1630	--	--	--	--	--	--	--	--	--	140	--
APR												
17...	1300	90000	--	--	42	--	--	10	--	--	240	3
MAY												
06...	1200	--	--	--	--	--	--	--	--	--	300	--
JUN												
04...	1200	--	--	--	--	--	--	--	--	--	360	--
JUL												
14...	1530	310	--	--	1	--	--	0	--	--	460	1
AUG												
06...	0910	--	--	--	--	--	--	--	--	--	620	--
26...	1230	--	--	--	--	--	--	--	--	--	500	--

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT												
26...	3	0	4	4	0	21	21	0	2200	--	0	7
NOV												
27...	--	--	--	--	--	--	--	--	--	--	120	--
DEC												
17...	--	--	--	--	--	--	--	--	--	--	80	--
JAN												
21...	--	--	10	--	--	16	--	--	2800	2800	20	7
FEB												
26...	--	--	--	--	--	--	--	--	--	--	40	--
MAR												
19...	--	--	--	--	--	--	--	--	--	--	400	--
APR												
17...	--	--	250	--	--	230	--	--	220000	220000	1200	240
MAY												
06...	--	--	--	--	--	--	--	--	--	--	110	--
JUN												
04...	--	--	--	--	--	--	--	--	--	--	780	--
JUL												
14...	--	--	10	--	--	7	--	--	440	390	50	5
AUG												
06...	--	--	--	--	--	--	--	--	--	--	260	--
26...	--	--	--	--	--	--	--	--	--	--	90	--

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
OCT												
26...	7	0	90	0	100	140	90	50	.0	.0	.0	3
NOV												
27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
21...	--	--	70	--	--	120	--	--	.1	--	--	7
FEB												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
17...	--	--	280	--	--	7000	--	--	.3	--	--	2
MAY												
06...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
14...	--	--	120	--	--	40	--	--	.2	--	--	13
AUG												
06...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT												
26...	0	3	8	6	2	3	0	3	4.0	20	10	10
NOV												
27...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
17...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
21...	--	--	9	--	--	9	--	--	--	60	--	--
FEB												
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
19...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
17...	--	--	290	--	--	9	--	--	--	1100	--	--
MAY												
06...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
04...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
14...	--	--	6	--	--	1	--	--	--	30	--	--
AUG												
06...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)
OCT											
26...	1440	<45	2.6	<18	4.0	<18	4.1	.11	11	<31	1.8

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT									
03...	0830	3.0	--	.38	39	.04	--	--	--
NOV									
07...	1410	.0	1.8	--	356	1.7	--	--	--
FEB									
07...	1750	.0	1.7	--	385	1.8	--	--	--
21...	1200	.5	92	--	1250	310	65	80	--
MAR									
03...	1055	.0	47	--	1970	250	58	76	93
19...	1630	3.0	19	--	5740	294	48	72	93
APR									
07...	1215	.0	--	26	10600	744	35	60	80
17...	1300	9.5	--	128	20800	7190	46	68	95
29...	1150	12.5	--	22	4120	245	46	60	80
MAY									
06...	1200	14.5	--	7.7	670	14	--	--	--
JUN									
04...	1200	20.0	--	6.6	872	16	--	--	--
JUL									
14...	1530	23.0	--	.58	70	.11	--	--	--
AUG									
06...	0910	11.5	--	24	27	1.7	--	--	--
26...	1230	22.0	--	.28	142	.11	--	--	--
SEP									
12...	0925	11.0	--	18	9820	477	--	--	--

09216562 BITTER CREEK ABOVE SALT WELLS CREEK, NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM
OCT									
03...	--	--	--	--	--	--	--	--	--
NOV									
07...	--	--	--	--	--	--	--	--	--
FEB									
07...	--	--	--	--	--	--	--	--	--
21...	--	--	96	99	99	100	--	--	--
MAR									
03...	98	100	--	--	--	--	--	--	--
19...	98	100	--	--	--	--	--	--	--
APR									
07...	92	100	--	--	--	--	--	--	--
17...	100	--	--	--	--	--	--	--	--
29...	96	100	--	--	--	--	--	--	--
MAY									
06...	--	--	--	--	--	--	--	--	--
JUN									
04...	--	--	--	--	--	--	20	12	37
JUL									
14...	--	--	--	--	--	--	--	--	--
AUG									
06...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	5	8	22
SEP									
12...	--	--	--	--	--	--	--	--	--

DATE	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT									
03...	--	--	--	--	--	--	--	--	--
NOV									
07...	--	--	--	--	--	--	--	--	--
FEB									
07...	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--
MAR									
03...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
APR									
07...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
MAY									
06...	--	--	--	--	--	--	--	--	--
JUN									
04...	69	78	83	86	92	96	97	98	100
JUL									
14...	--	--	--	--	--	--	--	--	--
AUG									
06...	--	--	--	--	--	--	--	--	--
26...	81	94	96	97	98	100	--	--	--
SEP									
12...	--	--	--	--	--	--	--	--	--

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°11'56", long 108°59'52", in SE¼NE¼NW¼ sec.15, T.14 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on left bank 0.05 mi (0.08 km) downstream from unnamed tributary, 6.0 mi (9.7 km) upstream from Gap Creek, 13.0 mi (20.9 km) southeast of South Baxter, and 29.0 mi (46.7 km) southeast of Rock Springs.

DRAINAGE AREA.--34.7 mi^2 (89.9 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,080 ft (2,158 m), from topographic map. Prior to Oct. 13, 1977, gage on right bank at present datum.

REMARKS.--Records fair except those for winter period, which are poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 347 ft^3/s (9.83 m^3/s) July 24, 1977, gage height, 5.75 ft (1.753 m), from rating curve extended above 6.3 ft^3/s (0.18 m^3/s) on basis of slope-area measurement of peak flow; no flow for many days during 1977 and 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31 ft^3/s (0.88 m^3/s) Apr. 20, gage height, 3.79 ft (1.155 m); maximum gage height, 4.78 ft (1.457 m) Jan. 23 (backwater from ice); minimum daily discharge, 0.07 ft^3/s (0.002 m^3/s) Jan. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.17	.23	.11	.10	1.2	1.7	14	8.8	2.3	.32	.27
2	.19	.20	.30	.12	.20	1.3	1.5	11	7.9	2.3	.44	.21
3	.19	.23	.40	.12	.30	1.4	1.4	10	6.1	2.3	.38	.23
4	.25	.30	.52	.13	.40	1.3	1.2	12	5.2	2.0	.27	.23
5	.25	.45	.57	.12	.45	1.2	1.2	13	5.0	1.8	.27	.27
6	.25	.40	.60	.11	.40	1.1	1.3	12	4.2	1.1	.38	.30
7	.23	.37	.60	.10	.35	1.1	1.3	16	4.2	1.0	.35	.44
8	.25	.40	.58	.08	.45	1.2	1.4	14	4.0	1.3	.23	.56
9	.27	.43	.55	.09	.60	1.4	1.5	14	3.7	1.5	.21	.60
10	.32	.41	.50	.10	.70	1.6	1.4	14	3.4	1.0	.23	.94
11	.32	.40	.40	.11	.77	1.7	1.7	14	3.1	.88	.21	1.1
12	.35	.42	.33	.13	.88	1.6	2.5	13	2.8	.75	.19	.75
13	.38	.44	.28	.20	.82	1.7	3.2	12	3.1	.95	.21	.75
14	.38	.42	.24	.30	.75	1.9	3.9	10	2.5	1.0	.30	.64
15	.41	.40	.22	.40	.82	2.1	5.0	10	2.7	.70	.41	.56
16	.44	.37	.23	.40	.88	1.9	6.0	12	2.7	.60	.48	.48
17	.48	.33	.24	.38	.90	1.7	7.0	12	2.9	.56	.52	.41
18	.70	.28	.23	.35	1.0	1.8	8.2	11	2.5	.60	.41	.38
19	.54	.23	.21	.33	1.1	1.9	10	10	2.7	.64	.32	.41
20	.54	.21	.19	.30	1.1	2.1	13	11	2.5	.56	.35	.60
21	.65	.20	.16	.30	1.0	2.0	12	11	2.5	.52	.32	.64
22	.75	.19	.14	.37	.80	2.2	8.8	12	2.3	.48	.27	.56
23	.80	.18	.12	.40	.60	2.4	8.2	12	2.2	.38	.23	.56
24	.93	.20	.11	.35	.40	2.7	11	12	1.9	.35	.27	.48
25	.62	.22	.11	.30	.33	2.8	12	9.8	1.9	.92	.30	.41
26	.58	.21	.10	.20	.60	3.1	14	8.5	1.8	.38	.44	.44
27	.53	.19	.09	.15	.80	2.6	11	8.2	1.6	.32	.41	.44
28	.45	.18	.09	.10	1.2	2.2	9.2	7.9	1.5	.30	.25	.44
29	.35	.18	.10	.08	1.1	2.3	10	8.8	1.6	.30	.21	.41
30	.25	.19	.10	.07	---	2.4	16	9.5	2.0	.32	.21	.38
31	.15	---	.11	.09	---	2.1	---	8.2	---	.32	.23	---
TOTAL	12.97	8.80	8.65	6.39	19.80	58.0	186.6	352.9	99.3	28.43	9.62	14.89
MEAN	.42	.29	.28	.21	.68	1.87	6.22	11.4	3.31	.92	.31	.50
MAX	.93	.45	.60	.40	1.2	3.1	16	16	8.8	2.3	.52	1.1
MIN	.15	.17	.09	.07	.10	1.1	1.2	7.9	1.5	.30	.19	.21
AC-FT	26	17	17	13	39	115	370	700	197	56	19	30

CAL YR 1979 TOTAL 510.39 MEAN 1.40 MAX 11 MIN .00 AC-FT 1010
WTR YR 1980 TOTAL 806.35 MEAN 2.20 MAX 16 MIN .07 AC-FT 1600

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1977 to current year.
TEMPERATURES: October 1977 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1976 to current year.

INSTRUMENTATION.--Automatic pumping sediment sampler since October 1976. Water-quality monitor since October 1977.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily mean, 1,790 micromhos Nov. 16, 1978; minimum daily, 460 micromhos Apr. 29, 1978.
TEMPERATURES: Maximum daily, 30.5°C Aug. 7, 1978; minimum daily, 0.0°C on many days in most years.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 14,000 mg/L Aug. 27, 1977; minimum daily mean, no flow for many days each year.
SEDIMENT LOADS: Maximum daily, 492 tons (446 tonnes) Aug. 26, 1977; minimum daily, 0 tons on many days each year.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily mean, 1,560 micromhos Oct. 19.
TEMPERATURES: Maximum daily, 29.0°C July 11, 21, 23, Aug. 7; minimum daily, 0.0°C on many days.
SEDIMENT CONCENTRATIONS: Maximum observed, 5,380 mg/L Apr. 8; minimum daily mean, 0 mg/L on many days.
SEDIMENT LOADS: Maximum observed, 131 tons (118 tonnes) May 7; minimum daily, 0 tons on many days.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW (CFS)	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT											
03...	1635	--	.15	1080	--	17.0	4	--	--	--	--
10...	1200	--	.34	1120	--	8.5	2	--	--	--	--
18...	1115	--	.60	1110	--	6.4	25	--	--	--	--
23...	1540	.80	--	1280	8.5	7.5	--	9.7	2.0	490	250
25...	1125	--	.90	1200	--	4.7	330	--	--	--	--
31...	1100	--	.09	1325	--	.0	20	--	--	--	--
NOV											
08...	1255	--	.80	1080	--	.0	550	--	--	--	--
21...	1200	--	.17	1290	--	.0	30	--	--	--	--
DEC											
01...	0830	.23	--	2200	8.0	.0	--	13.6	2.4	1000	510
05...	1340	--	.57	1300	--	.5	9	--	--	--	--
19...	1450	.21	--	1225	8.2	.0	30	10.9	1.0	530	220
JAN											
08...	1530	--	.23	1275	8.5	.0	15	10.0	.7	560	250
23...	1130	.40	--	1150	--	.0	60	--	--	--	--
FEB											
11...	1515	--	.88	1220	8.7	.0	--	10.8	1.4	510	200
29...	1120	1.1	--	760	--	.0	2000	--	--	--	--
MAR											
11...	1435	1.7	--	870	8.1	.0	1800	10.0	3.9	330	0
24...	1030	--	2.9	1300	--	.0	2900	--	--	--	--
APR											
08...	1105	1.4	--	1300	--	.0	9000	--	--	--	--
23...	1200	--	5.8	740	8.2	13.0	8100	8.2	2.6	300	110
28...	1200	--	7.6	650	--	10.5	4400	--	--	--	--
MAY											
07...	1000	--	19	600	8.1	8.5	16000	9.2	2.5	200	26
09...	1100	--	14	510	--	8.5	5100	--	--	--	--
15...	1115	--	--	670	--	8.0	3000	--	--	--	--
23...	1015	--	E10	560	--	11.0	1700	--	--	--	--
28...	1000	--	--	650	--	9.5	950	--	--	--	--
JUN											
03...	0945	--	6.6	690	8.0	12.0	75	8.5	1.9	250	18
13...	1030	--	3.0	600	--	17.0	2100	--	--	--	--
19...	1115	--	E3.0	850	--	18.5	2500	--	--	--	--
24...	0945	--	E2.0	875	--	11.0	150	--	--	--	--
30...	1100	--	E2.0	900	--	17.0	320	--	--	--	--
JUL											
08...	1530	--	1.4	875	8.7	21.5	30	7.7	1.6	330	110
17...	1315	--	.52	950	--	22.0	2	--	--	--	--
22...	0930	--	E.50	950	--	15.0	3	--	--	--	--
29...	1050	--	E.30	1080	--	18.0	2	--	--	--	--
AUG											
08...	1025	--	.25	1120	8.8	15.0	5	8.4	1.0	410	200
14...	1035	--	E.20	1175	--	18.0	1	--	--	--	--
19...	1050	--	.31	1050	--	11.0	1	--	--	--	--
26...	0915	--	E.90	1100	--	10.0	2	--	--	--	--
SEP											
02...	1600	--	.19	1100	8.7	22.5	10	7.8	1.5	390	180

E-Estimate.

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
23...	82	70	100	2.0	6.0	240	460	17	.2	9.6	889
25...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	170	140	170	2.3	12	490	800	26	.5	21	1630
05...	--	--	--	--	--	--	--	--	--	--	--
19...	100	69	85	1.6	5.5	310	370	12	.4	14	842
JAN											
08...	110	70	88	1.6	5.0	310	410	12	.3	13	895
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
11...	96	66	89	1.7	4.4	310	400	12	.2	15	869
29...	--	--	--	--	--	--	--	--	--	--	--
MAR											
11...	60	43	63	1.5	4.3	390	74	8.5	.3	9.0	497
24...	--	--	--	--	--	--	--	--	--	--	--
APR											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	63	35	51	1.3	4.4	190	200	6.4	.2	13	487
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	39	24	43	1.3	3.0	170	110	5.4	.1	16	343
09...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JUN											
03...	45	33	51	1.4	2.8	230	120	5.2	.2	14	410
13...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	54	48	75	1.8	4.3	220	240	10	.4	14	578
17...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	65	60	78	1.7	7.1	210	350	12	.4	4.2	703
14...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
SEP											
02...	59	60	79	1.7	6.0	210	350	12	.3	7.0	700

GREEN RIVER BASIN

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
23...	1.21	1.92	.04	.000	.00	--	--	--	--	.220	.67
25...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	2.22	1.01	.34	.130	.16	.58	.71	1.1	4.6	.040	.12
05...	--	--	--	--	--	--	--	--	--	--	--
19...	1.15	.48	.12	.090	.11	.53	.62	.74	3.3	.040	.12
JAN											
08...	1.22	.56	.10	.150	.18	.83	.98	1.1	4.8	.030	.09
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
11...	1.18	2.06	.23	.020	.02	.37	.39	.62	2.7	.110	.34
29...	--	--	--	--	--	--	--	--	--	--	--
MAR											
11...	.68	2.28	.44	.230	.28	1.7	1.9	2.3	10	1.200	3.7
24...	--	--	--	--	--	--	--	--	--	--	--
APR											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	.66	7.63	.47	.250	.30	9.6	9.8	10	45	3.000	9.2
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	.47	17.6	.27	.030	.04	4.6	4.6	4.9	22	2.700	8.3
09...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JUN											
03...	.56	7.31	.00	.010	.01	.59	.60	.60	2.7	.150	.46
13...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	.79	2.18	.00	.000	.00	2.5	2.5	2.5	11	.090	.28
17...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	.96	.47	.00	.010	.01	.36	.37	.37	1.6	.060	.18
14...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
SEP											
02...	.95	.36	.00	.000	.00	1.5	1.5	1.5	6.6	.010	.03

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)
SEP 09...	1115	.51	1060	11.0	2
24...	0915	.38	1100	5.5	4

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)
OCT 23...	1540	--	0	3	2	1	0	0	<1	150	0	0
DEC 01...	0830	--	--	--	--	--	--	--	--	250	--	--
19...	1450	--	--	--	--	--	--	--	--	140	--	--
JAN 08...	1530	380	--	--	--	--	0	--	--	120	0	--
FEB 11...	1515	--	--	--	--	--	--	--	--	140	--	--
MAR 11...	1435	--	--	--	--	--	--	--	--	120	--	--
APR 23...	1200	10000	--	22	--	--	0	--	--	100	2	--
MAY 07...	1000	--	--	--	--	--	--	--	--	90	--	--
JUN 03...	0945	--	--	--	--	--	--	--	--	100	--	--
JUL 08...	1530	350	--	3	--	--	0	--	--	140	0	--
AUG 08...	1025	--	--	--	--	--	--	--	--	150	--	--
SEP 02...	1600	--	--	--	--	--	--	--	--	150	--	--

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)
OCT 23...	1	0	0	0	8	5	3	5200	--	40	10	10
DEC 01...	--	--	--	--	--	--	--	--	--	160	--	--
19...	--	--	--	--	--	--	--	--	--	20	--	--
JAN 08...	--	0	--	--	0	--	--	750	730	20	5	--
FEB 11...	--	--	--	--	--	--	--	--	--	60	--	--
MAR 11...	--	--	--	--	--	--	--	--	--	40	--	--
APR 23...	--	80	--	--	110	--	--	80000	80000	60	59	--
MAY 07...	--	--	--	--	--	--	--	--	--	170	--	--
JUN 03...	--	--	--	--	--	--	--	--	--	240	--	--
JUL 08...	--	10	--	--	4	--	--	980	670	310	1	--
AUG 08...	--	--	--	--	--	--	--	--	--	120	--	--
SEP 02...	--	--	--	--	--	--	--	--	--	390	--	--

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)
OCT												
23...	0	40	10	30	170	160	10	.1	.1	.0	2	0
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
08...	--	30	--	--	290	--	--	.1	--	--	7	--
FEB												
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
23...	--	110	--	--	2400	--	--	.2	--	--	4	--
MAY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
03...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	--	30	--	--	90	--	--	.1	--	--	5	--
AUG												
08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT											
23...	<10	7	5	2	2	0	2	<1.0	10	2	8
DEC											
01...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JAN											
08...	--	3	--	--	0	--	--	--	--	--	--
FEB											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
11...	--	--	--	--	--	--	--	--	--	--	--
APR											
23...	--	25	--	--	4	--	--	--	440	--	--
MAY											
07...	--	--	--	--	--	--	--	--	--	--	--
JUN											
03...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	--	2	--	--	1	--	--	--	20	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
SEP											
02...	--	--	--	--	--	--	--	--	--	--	--

GREEN RIVER BASIN

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	NUMBER OF SAM-PLING POINTS
OCT												
03...	1635	17.0	--	.15	14	.01	--	--	--	--	--	--
10...	1200	8.5	--	.34	8	.01	--	--	--	--	--	--
18...	1115	6.4	--	.60	32	.05	--	--	--	--	--	--
25...	1125	4.7	--	.90	413	1.0	--	--	--	--	--	--
31...	1100	.0	--	.09	106	.03	--	--	--	--	--	--
NOV												
08...	1255	.0	--	.80	567	1.2	--	--	--	--	--	--
21...	1200	.0	--	.17	72	.03	--	--	--	--	--	--
DEC												
05...	1340	.5	--	.57	32	.05	--	--	--	--	--	--
19...	1450	.0	.21	--	142	.08	--	--	--	--	--	--
JAN												
08...	1530	.0	--	.23	78	.05	--	--	--	--	--	--
23...	1130	.0	.40	--	184	.20	--	--	--	--	--	--
FEB												
11...	1515	.0	--	.88	141	.34	--	--	--	--	--	--
29...	1120	.0	1.1	--	1760	5.2	32	46	73	96	100	--
MAR												
11...	1435	.0	1.7	--	4840	22	54	78	92	97	100	--
24...	1030	.0	--	2.9	2760	22	--	--	--	--	--	--
APR												
08...	1105	.0	1.4	--	5380	20	36	68	84	94	100	--
23...	1200	13.0	--	5.8	5000	78	37	61	91	98	100	--
28...	1200	10.5	--	7.6	2300	47	44	65	90	97	100	--
MAY												
07...	1000	8.5	--	19	4830	248	32	56	86	97	100	--
09...	1100	8.5	--	14	1960	74	--	--	--	--	--	--
15...	1115	8.0	--	--	1420	--	--	--	--	--	--	--
23...	1015	11.0	--	E10	1190	--	--	--	--	--	--	--
28...	1000	9.5	--	--	626	--	--	--	--	--	--	--
JUN												
03...	0945	12.0	--	6.6	362	6.5	--	--	--	--	--	17
13...	1030	17.0	--	3.0	346	2.8	--	--	--	--	--	--
19...	1115	18.5	--	E3.0	240	--	--	--	--	--	--	--
24...	0945	11.0	--	E2.0	68	--	--	--	--	--	--	--
30...	1100	17.0	--	E2.0	40	--	--	--	--	--	--	--
JUL												
08...	1530	21.5	--	1.4	60	.23	--	--	--	--	--	--
17...	1315	22.0	--	.52	22	.03	--	--	--	--	--	--
22...	0930	15.0	--	E.50	16	--	--	--	--	--	--	--
29...	1050	18.0	--	E.30	17	--	--	--	--	--	--	--
AUG												
08...	1025	15.0	--	.25	12	.01	--	--	--	--	--	--
14...	1035	18.0	--	E.20	13	--	--	--	--	--	--	--
19...	1050	11.0	--	.31	20	.02	--	--	--	--	--	--
26...	0915	10.0	--	E.90	28	--	--	--	--	--	--	--
SEP												
02...	1600	22.5	--	.19	12	.01	--	--	--	--	--	6
09...	1115	11.0	--	.51	13	.02	--	--	--	--	--	--
24...	0915	5.5	--	.38	28	.03	--	--	--	--	--	--

E-Estimate

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
DEC											
05...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JAN											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
11...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
MAR											
11...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
APR											
08...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JUN											
03...	13	31	53	61	62	66	71	81	91	100	--
13...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
SEP											
02...	4	12	34	39	41	45	54	70	82	92	100
09...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1080	1510	1350	---	---			---	641	875	1020	1080
2	1080	1480	1320	---	---			---	672	879	988	1050
3	1080	1390	1310	---	---			---	680	851	987	1040
4	1080	1310	1280	---	---			---	697	820	898	1060
5	1090	1120	1290	---	---			---	694	802	1030	1080
6	1090	1100	1260	---	---			---	702	819	1080	1070
7	1100	1160	1200	---	---			---	708	831	941	1080
8	1090	1200	1160	1280	---			---	716	875	920	1060
9	1090	---	1110	1280	---			---	728	873	1090	1050
10	1080	---	---	1260	---			---	738	655	1130	1140
11	1090	---	710	---	1200			---	736	570	1120	1160
12	1090	---	1270	---	1170			---	721	571	1170	1210
13	1080	---	1340	---	1180			---	756	736	1130	1050
14	1080	---	1370	---	1160			---	784	657	1120	1060
15	1070	---	1390	---	---			651	789	792	1090	1070
16	1070	---	1340	---	---			587	791	946	1060	1110
17	1050	---	1280	---	---			545	801	949	1040	1120
18	1180	---	1250	---	---			563	810	960	1010	1150
19	1560	---	1250	---	---			534	825	996	1040	1170
20	1060	---	1260	---	---			---	823	947	1040	1140
21	1060	1290	---	---	---			---	854	940	1050	1240
22	1430	1270	---	---	---			---	848	958	1060	1120
23	1380	1240	---	---	---			576	851	979	1080	1100
24	1220	1230	---	---	---			575	866	1000	1090	1090
25	1190	1200	---	---	---			617	862	1540	1070	1090
26	---	1150	---	---	---			613	881	1040	1030	1100
27	---	1220	---	---	---			627	895	1030	1030	1100
28	---	1220	---	---	---			628	888	1040	1060	1100
29	---	1260	---	---	---			644	871	1040	1050	1110
30	---	1330	---	---	---			662	878	1030	1050	1130
31	1360	---	---	---	---			648	---	1020	1090	---
MEAN	1150	1260	1250	1270	1180			605	784	904	1050	1100
MAX	1560	1510	1390	1280	1200			662	895	1540	1170	1240
MIN	1050	1100	710	1260	1160			534	641	570	898	1040

WTR YR 1980 MEAN 1050 MAX 1560 MIN 534

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.0	3.0	1.0	.5	.0	.0	.0	.0	.5	.0	.5	.0
2	17.5	4.5	.5	.5	.0	.0	.0	.0	.0	.0	.5	.0
3	18.0	3.0	1.0	.5	.0	.0	.0	.0	.5	.0	.0	.0
4	19.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.5	.0
5	19.0	3.5	.5	.0	.0	.0	.0	.0	.0	.0	.5	.0
6	20.5	4.0	.5	.5	.0	.0	.0	.0	.0	.0	.5	.0
7	21.0	4.0	.5	.0	.0	.0	.0	.0	.0	.0	1.0	.0
8	20.0	2.5	.5	.0	.0	.0	.0	.0	.5	.0	1.0	.0
9	17.5	2.0	.5	.5	.5	.0	.5	.0	1.0	.0	1.0	.0
10	18.5	3.0	.5	.0	.5	.0	.0	.0	.5	.0	1.5	.0
11	18.5	4.0	.5	.0	1.0	.0	.0	.0	.5	.0	1.0	.0
12	18.5	3.5	1.0	.5	.5	.0	.0	.0	.5	.0	.5	.0
13	18.0	1.0	.5	.0	.5	.0	.0	.0	.0	.0	.5	.0
14	13.0	4.5	.5	.0	.0	.0	.0	.0	.0	.0	1.0	.0
15	15.5	.5	.5	.0	.5	.0	.0	.0	.5	.0	1.0	.0
16	15.5	4.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	12.5	.0	.5	.0	.0	.0	.0	.0	.5	.0	.5	.0
18	14.5	2.5	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0
19	11.0	4.0	.5	.0	.0	.0	.0	.0	.5	.0	.5	.0
20	4.5	.0	.0	.0	.5	.0	.5	.0	.5	.0	3.0	.0
21	8.5	.0	.5	.0	.0	.0	.5	.0	.5	.0	1.5	.0
22	5.5	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0
23	9.0	.0	.0	.0	.0	.0	.5	.0	.5	.0	.5	.0
24	13.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	4.0	.0
25	12.5	.0	.0	.0	.0	.0	.5	.0	1.0	.0	3.0	.0
26	12.5	2.0	.0	.0	.0	.0	.5	.0	1.0	.0	4.5	.0
27	11.5	.0	.5	.0	1.0	.0	.5	.0	.5	.0	4.0	.0
28	8.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.0	.0
29	1.0	.0	1.0	.0	.5	.0	.0	.0	.5	.0	5.0	.0
30	1.0	.0	1.0	.0	.0	.0	.0	.0	---	---	1.5	.0
31	.5	.0	---	---	.0	.0	1.0	.0	---	---	.0	.0
MONTH	21.0	.0	1.0	.0	1.0	.0	1.0	.0	1.0	.0	5.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.0	.0	10.0	4.0	14.5	7.5	23.5	13.5	24.0	12.5	21.0	3.5
2	.0	.0	15.0	4.5	14.5	5.5	21.0	14.0	27.5	11.5	21.0	4.0
3	.5	.0	14.5	6.0	18.0	7.0	24.5	11.0	25.0	9.0	23.0	6.5
4	5.5	.0	14.0	7.5	19.0	7.5	25.5	12.5	25.0	7.5	23.5	5.5
5	7.5	.0	13.5	7.0	19.0	9.0	25.5	10.5	25.0	7.5	23.5	6.0
6	3.5	.0	13.0	7.0	16.5	7.5	25.5	8.5	25.5	10.0	20.0	8.0
7	4.0	.0	12.0	9.0	20.5	5.5	22.0	12.5	29.0	10.0	19.0	11.0
8	6.0	.0	15.0	7.0	22.5	8.0	23.0	12.5	27.5	11.5	23.5	11.0
9	8.0	.0	12.0	7.5	23.0	10.0	26.0	11.0	25.0	11.0	22.0	10.5
10	5.5	.0	11.5	6.0	23.5	10.5	26.0	12.0	26.5	8.5	17.5	11.5
11	3.5	.0	8.0	4.0	22.5	9.5	29.0	11.5	27.5	6.0	18.0	9.0
12	4.5	.0	8.0	3.0	22.0	8.5	22.5	15.0	23.5	8.5	15.0	9.5
13	9.5	.0	8.5	4.0	21.5	7.5	23.0	14.5	23.5	11.0	19.5	8.5
14	11.5	.0	12.5	4.0	21.5	7.5	24.0	11.5	23.5	10.0	13.5	6.5
15	10.0	.0	13.0	7.5	18.0	7.0	26.0	10.0	25.5	12.0	18.5	4.5
16	9.5	.0	13.5	6.0	23.0	5.5	28.0	9.5	18.0	9.5	19.5	6.5
17	11.0	.5	8.5	4.5	25.0	8.5	25.5	11.0	21.5	8.0	20.0	6.0
18	13.0	1.0	11.5	4.0	22.0	11.5	25.0	11.5	22.0	8.5	19.0	5.0
19	12.0	.5	14.0	6.0	22.5	12.5	22.5	12.0	16.0	8.0	16.5	8.5
20	12.5	.5	18.0	7.0	24.0	9.5	27.0	8.5	23.0	5.5	19.0	5.5
21	8.0	1.5	20.5	9.5	24.5	10.5	29.0	10.0	24.5	5.5	14.0	5.0
22	8.0	4.0	19.5	10.5	25.0	9.5	28.5	10.0	23.5	7.5	16.5	1.0
23	12.0	4.5	16.5	10.5	21.5	10.0	29.0	10.5	22.0	9.0	17.0	3.0
24	7.5	4.0	13.0	7.0	23.5	7.5	22.5	12.0	20.5	11.0	17.0	3.5
25	14.5	1.0	12.0	3.0	23.5	8.0	25.5	10.0	19.0	11.0	18.0	1.5
26	14.5	2.5	13.0	2.5	23.0	9.0	26.0	9.5	23.5	10.0	17.5	1.5
27	14.0	3.0	13.5	5.0	24.5	8.0	27.0	8.0	23.0	8.0	18.0	3.5
28	14.0	3.5	17.0	6.5	25.5	7.5	28.5	9.0	21.5	7.0	19.0	4.0
29	13.0	5.5	12.5	8.0	26.0	10.5	23.5	10.0	24.5	8.5	19.0	4.5
30	9.5	5.5	15.5	5.0	23.0	12.0	25.0	12.5	20.0	8.5	19.0	4.0
31	---	---	15.0	7.5	---	---	28.0	11.0	15.0	6.5	---	---
MONTH	14.5	.0	20.5	2.5	26.0	5.5	29.0	8.0	29.0	5.5	23.5	1.0
YEAR	29.0	.0										

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	.17	35	.02	.17	---	.05	.23	---	.11
2	.19	29	.01	.20	---	.08	.30	---	.22
3	.19	39	.02	.23	---	.11	.40	---	.46
4	.25	192	.13	.30	---	.22	.52	---	.90
5	.25	1180	.80	.45	---	.62	.57	32	.05
6	.25	396	.27	.40	---	.46	.60	---	1.3
7	.23	609	.38	.37	---	.38	.60	---	1.3
8	.25	704	.48	.40	567	.61	.58	---	1.2
9	.27	603	.44	.43	---	.55	.55	---	1.0
10	.32	600	.52	.41	---	.49	.50	---	.82
11	.32	260	.22	.40	---	.46	.40	---	.46
12	.35	250	.24	.42	---	.52	.33	---	.28
13	.38	550	.56	.44	---	.59	.28	---	.19
14	.38	370	.38	.42	---	.52	.24	---	.12
15	.41	690	.76	.40	---	.46	.22	---	.10
16	.44	620	.74	.37	---	.38	.23	---	.11
17	.48	790	1.0	.33	---	.28	.24	---	.12
18	.70	530	1.0	.28	---	.19	.23	---	.11
19	.54	160	.23	.23	---	.11	.21	142	.08
20	.54	170	.25	.21	---	.09	.19	---	.07
21	.65	---	1.6	.20	72	.04	.16	---	.04
22	.75	---	2.4	.19	---	.07	.14	---	.03
23	.80	---	2.8	.18	---	.06	.12	---	.02
24	.93	---	4.1	.20	---	.08	.11	---	.02
25	.62	530	.89	.22	---	.10	.11	---	.02
26	.58	300	.47	.21	---	.09	.10	---	.01
27	.53	120	.17	.19	---	.07	.09	---	.01
28	.45	670	.81	.18	---	.06	.09	---	.01
29	.35	930	.88	.18	---	.06	.10	---	.01
30	.25	520	.35	.19	---	.07	.10	---	.01
31	.15	170	.07	---	---	---	.11	---	.02
TOTAL	12.97	---	22.99	8.80	---	7.87	8.65	---	9.20
		JANUARY			FEBRUARY			MARCH	
1	.11	---	.02	.10	---	.01	1.2	---	7.7
2	.12	---	.02	.20	---	.08	1.3	---	8.9
3	.12	---	.02	.30	---	.22	1.4	---	10
4	.13	---	.03	.40	---	.46	1.3	---	8.9
5	.12	---	.02	.45	---	.62	1.2	---	7.7
6	.11	---	.02	.40	---	.46	1.1	---	6.2
7	.10	---	.01	.35	---	.33	1.1	---	6.2
8	.08	78	.02	.45	---	.62	1.2	---	7.7
9	.09	---	.01	.60	---	1.3	1.4	---	10
10	.10	---	.01	.70	---	2.0	1.6	---	12
11	.11	---	.02	.77	141	.29	1.7	4840	22
12	.13	---	.03	.88	---	3.6	1.6	---	12
13	.20	---	.08	.82	---	2.9	1.7	---	13
14	.30	---	.22	.75	---	2.4	1.9	---	15
15	.40	---	.46	.82	---	2.9	2.1	---	17
16	.40	---	.46	.88	---	3.6	1.9	---	15
17	.38	---	.40	.90	---	3.8	1.7	---	13
18	.35	---	.33	1.0	---	4.9	1.8	---	14
19	.33	---	.28	1.1	---	6.2	1.9	---	15
20	.30	---	.22	1.1	---	6.2	2.1	---	17
21	.30	---	.22	1.0	---	4.9	2.0	---	16
22	.37	---	.38	.80	---	2.8	2.2	---	18
23	.40	184	.20	.60	---	1.3	2.4	---	19
24	.35	---	.33	.40	---	.46	2.7	2760	20
25	.30	---	.22	.33	---	.28	2.8	---	22
26	.20	---	.08	.60	---	1.3	3.1	---	24
27	.15	---	.04	.80	---	2.8	2.6	---	20
28	.10	---	.01	1.2	---	7.7	2.2	---	18
29	.08	---	.01	1.1	1760	5.2	2.3	---	18
30	.07	---	.01	---	---	---	2.4	---	19
31	.09	---	.01	---	---	---	2.1	---	17
TOTAL	6.39	---	4.19	19.80	---	69.63	58.0	---	449.3

09216565 SALT WELLS CREEK NEAR SOUTH BAXTER, WY--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	1.7	---	13	14	---	68	8.8	730	17
2	1.5	---	11	11	---	58	7.9	810	17
3	1.4	---	10	10	---	54	6.1	520	8.6
4	1.2	---	7.7	12	---	62	5.2	490	6.9
5	1.2	---	7.7	13	---	65	5.0	470	6.3
6	1.3	---	8.9	12	---	62	4.2	380	4.3
7	1.3	---	8.9	16	3030	131	4.2	320	3.6
8	1.4	5380	20	14	1430	54	4.0	300	3.2
9	1.5	---	11	14	1600	60	3.7	287	2.9
10	1.4	---	10	14	1300	42	3.4	297	2.7
11	1.7	---	13	14	---	68	3.1	294	2.5
12	2.5	---	20	13	---	65	2.8	235	1.8
13	3.2	---	25	12	---	62	3.1	360	3.0
14	3.9	---	28	10	---	54	2.5	220	1.5
15	5.0	---	34	10	1200	66	2.7	180	1.3
16	6.0	---	39	12	1120	71	2.7	184	1.3
17	7.0	---	43	12	1600	52	2.9	168	1.3
18	8.2	---	48	11	1300	39	2.5	177	1.2
19	10	---	54	10	---	54	2.7	440	3.2
20	13	---	65	11	---	58	2.5	750	5.1
21	12	---	62	11	---	58	2.5	520	3.5
22	8.8	---	50	12	---	62	2.3	390	2.4
23	8.2	5000	111	12	1200	39	2.2	435	2.6
24	11	---	58	12	1120	36	1.9	520	2.7
25	12	---	62	9.8	1500	40	1.9	390	2.0
26	14	---	68	8.5	1020	23	1.8	220	1.1
27	11	---	58	8.2	820	18	1.6	170	.73
28	9.2	2300	57	7.9	860	18	1.5	320	1.3
29	10	---	54	8.8	780	19	1.6	265	1.1
30	16	---	75	9.5	900	23	2.0	210	1.1
31	---	---	---	8.2	650	14	---	---	---
TOTAL	186.6	---	1132.2	352.9	---	1595	99.3	---	113.23
		JULY			AUGUST			SEPTEMBER	
1	2.3	150	.93	.32	31	.03	.27	38	.03
2	2.3	175	1.1	.44	27	.03	.21	50	.03
3	2.3	105	.65	.38	18	.02	.23	60	.04
4	2.0	85	.46	.27	13	.00	.23	52	.03
5	1.8	55	.27	.27	85	.06	.27	40	.03
6	1.1	44	.13	.38	31	.03	.30	42	.03
7	1.0	64	.17	.35	35	.03	.44	37	.04
8	1.3	77	.27	.23	52	.03	.56	57	.09
9	1.5	68	.28	.21	45	.03	.60	72	.12
10	1.0	95	.26	.23	32	.02	.94	2740	7.0
11	.88	49	.12	.21	26	.01	1.1	4000	12
12	.75	50	.10	.19	41	.02	.75	400	.81
13	.95	93	.24	.21	37	.02	.75	148	.30
14	1.0	110	.30	.30	48	.04	.64	64	.11
15	.70	93	.18	.41	120	.13	.56	46	.07
16	.60	64	.10	.48	75	.10	.48	53	.07
17	.56	65	.10	.52	48	.07	.41	52	.06
18	.60	88	.14	.41	48	.05	.38	64	.07
19	.64	96	.17	.32	38	.03	.41	47	.05
20	.56	40	.06	.35	70	.07	.60	90	.15
21	.52	40	.06	.32	47	.04	.64	58	.10
22	.48	85	.11	.27	43	.03	.56	43	.07
23	.38	60	.06	.23	57	.04	.56	53	.08
24	.35	681	.64	.27	86	.06	.48	52	.07
25	.92	1070	2.7	.30	71	.06	.41	31	.03
26	.38	100	.10	.44	145	.17	.44	16	.02
27	.32	65	.06	.41	63	.07	.44	22	.03
28	.30	40	.03	.25	92	.06	.44	16	.02
29	.30	49	.04	.21	63	.04	.41	20	.02
30	.32	35	.03	.21	63	.04	.38	18	.02
31	.32	28	.02	.23	35	.02	---	---	---
TOTAL	28.43	---	9.88	9.62	---	1.45	14.89	---	21.59
YEAR	806.35		3436.53						

09216578 DRY CANYON CREEK NEAR SOUTH BAXTER, WY

LOCATION.--Lat 41°13'02", long 108°54'56", in NE¼SW¼SE¼ sec.5, T.14 N., R.102 W., Sweetwater County, Hydrologic Unit 14040105, on left bank 2.3 mi (3.7 km) upstream from Pio Reservoir, 13.5 mi (21.7 km) southeast of South Baxter, and 29.0 mi (46.7 km) southeast of Rock Springs.

DRAINAGE AREA.--3.69 mi² (9.56 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to September 1980 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 7,210 ft (2,198 m), from topographic map. Prior to Oct. 1, 1977, non-recording gage.

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23 ft³/s (0.65 m³/s) July 24, 1977, gage height, 3.80 ft (1.158 m); no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14 ft³/s (0.40 m³/s) May 5, gage height, 3.37 ft (1.027 m). No flow most of year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

WTR YR 1978 TOTAL 0.00 MEAN .000 MAX .00 MIN .00 AC-FT .00

09216578 DRY CANYON CREEK NEAR SOUTH BAXTER, WY--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00
13	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.08	.00
14	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00	1.5	.00
15	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.73	.00
16	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.91	.00
17	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.44	.00
18	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.23	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.26	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.9	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.41	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.06	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.18	.00	.00	6.99	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.006	.000	.000	.23	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	1.9	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.4	.00	.00	14	.00

CAL YR 1978 TOTAL 0.00 MEAN .000 MAX .00 MIN .00 AC-FT .00
WTR YR 1979 TOTAL 7.17 MEAN .020 MAX 1.9 MIN .00 AC-FT 14

09216578 DRY CANYON CREEK NEAR SOUTH BAXTER, WY--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	1.2	.00	.14	.01	.00
2	.00	.00	.00	.00	.00	.00	.00	.85	.00	.21	.01	.00
3	.00	.00	.00	.00	.00	.00	.00	.69	.00	.17	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	1.2	.01	.18	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	1.1	.01	.10	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.84	.02	.05	.01	.00
7	.00	.00	.00	.00	.00	.00	.00	2.2	.03	.05	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.98	.02	.09	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.82	.01	.07	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	2.0	.01	.05	.00	1.0
11	.00	.00	.00	.00	.00	.00	.00	1.4	.01	.03	.00	.10
12	.00	.00	.00	.00	.00	.00	.00	1.3	.00	.03	.00	.05
13	.00	.00	.00	.00	.00	.00	.00	.87	.00	.09	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.45	.00	.08	.01	.00
15	.00	.00	.00	.00	.00	.00	.00	.25	.00	.04	.08	.00
16	.00	.00	.00	.00	.00	.00	.00	.15	.00	.02	.08	.00
17	.00	.00	.00	.00	.00	.00	.00	.09	.00	.02	.07	.00
18	.00	.00	.00	.00	.00	.00	.00	.07	.00	.07	.04	.00
19	.00	.00	.00	.00	.00	.00	.00	.07	.00	.08	.01	.00
20	.00	.00	.00	.00	.00	.00	.00	.05	.00	.04	.01	.00
21	.00	.00	.00	.00	.00	.00	.00	.02	.00	.01	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.06	.00	.00	.02	.00
25	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.04	.00
26	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.06	.03	.00	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	.18	.02	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.63	.01	.02	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.87	16.89	.14	1.62	.39	1.15
MEAN	.000	.000	.000	.000	.000	.000	.029	.54	.005	.052	.013	.038
MAX	.00	.00	.00	.00	.00	.00	.63	2.2	.03	.21	.08	1.0
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	1.7	34	.3	3.2	.8	2.3

CAL YR 1979 TOTAL 7.17 MEAN .020 MAX 1.9 MIN .00 AC-FT 14
WTR YR 1980 TOTAL 21.06 MEAN .058 MAX 2.2 MIN .00 AC-FT 42

09216578 DRY CANYON CREEK NEAR SOUTH BAXTER, WY

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to September 1980 (discontinued). No data available for water years 1976-78.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
MAY						
07...	1230	--	11	165	8580	255
SEP						
10...	1530	15.5	11	250	11300	336

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY

LOCATION.--Lat 41°37'50", long 108"59'18", in NE¼NW¼NE¼ sec.14, T.19 N., R.103 W., Sweetwater County, Hydrologic Unit 14040105, on right bank 1.7 mi (2.7 km) south of Salt Wells, 3.0 mi (4.8 km) upstream from mouth, and 12 mi (19 km) east of Rock Springs.

DRAINAGE AREA.--526 mi² (1,362 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,340 ft (1,932 m), from topographic map.

REVISED RECORD.--WDR WY-77-2: 1976(M), WDR WY-78-2: 1976(M).

REMARKS.--Records poor. No diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,650 ft³/s (46.7 m³/s), Aug. 1, 1976, gage height 8.80 ft (2.682 m), from rating curve extended above 820 ft³/s (23.2 m³/s) on basis of slope-area measurement of peak flow; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 207 ft³/s (5.86 m³/s) Oct. 20, gage height, 4.07 ft (1.241 m); maximum gage height, 5.19 ft (1.582 m) Feb. 28 (backwater from ice); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	28	.00	29	19	.00	.00	.00
2	.00	.00	.00	.00	.00	24	.14	39	15	.00	.00	.00
3	.00	.00	.00	.00	.00	18	.23	29	13	.00	.00	.00
4	.00	.00	.00	.00	.00	15	.30	24	12	28	.00	.00
5	.00	.00	.00	.00	.00	13	.49	45	10	16	.00	.00
6	.00	.00	.00	.00	.00	11	4.4	42	8.6	4.7	.00	.00
7	.00	.00	.00	.00	.00	9.0	15	39	8.6	1.9	.00	.00
8	.00	.00	.00	.00	.00	7.4	16	65	9.0	.74	.00	.00
9	.00	.00	.00	.00	.00	6.4	1.2	101	7.8	12	.00	.00
10	.00	.00	.00	.00	.00	6.0	.85	70	6.3	.65	.00	.00
11	.00	.00	.00	.00	.00	7.0	2.8	68	5.6	.00	.00	.00
12	.00	.00	.00	.00	.00	8.0	2.8	70	3.8	.00	.00	.00
13	.00	.00	.00	.00	.00	10	2.1	58	2.3	.00	.00	.00
14	.00	.00	.00	.00	.00	8.0	.85	43	1.9	.00	.00	.00
15	.00	.00	.00	.00	.00	7.0	.49	35	2.1	.00	.00	.00
16	.00	.00	.00	.00	.00	6.0	11	60	2.1	.00	.00	.00
17	.00	.00	.00	.00	.00	8.0	33	71	2.6	.00	.00	.00
18	.00	.00	.00	.00	.00	11	32	57	2.6	.00	.00	.00
19	.00	.00	.00	.00	.00	13	35	45	2.3	.00	.00	.00
20	72	.00	.00	.00	5.0	11	45	35	2.1	.00	.00	.00
21	39	.00	.00	.01	45	8.0	60	35	1.9	.00	.00	.00
22	3.3	.00	.00	.00	42	4.0	57	33	1.9	.00	.00	.00
23	.52	.00	.00	.00	35	.40	37	34	1.5	.00	.00	.00
24	.14	.00	.00	.00	30	.18	29	36	.65	.00	.00	.00
25	.00	.00	.00	.00	25	.20	24	33	.42	.00	.00	.00
26	.00	.00	.00	.00	30	.25	27	29	.00	.00	16	.00
27	.00	.00	.00	.00	35	.15	32	26	.00	.00	4.8	.00
28	.00	.00	.00	.00	33	.00	28	23	.00	.00	.80	.00
29	.00	.00	.00	.00	31	.00	25	24	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	24	25	.00	.00	.00	.00
31	.00	---	.00	.00	---	.10	---	23	---	.00	.00	---
TOTAL	114.96	.00	.00	.01	311.00	240.08	546.65	1346	143.07	63.99	21.60	.00
MEAN	3.71	.000	.000	.000	10.7	7.74	18.2	43.4	4.77	2.06	.70	.000
MAX	72	.00	.00	.01	45	28	60	101	19	28	16	.00
MIN	.00	.00	.00	.00	.00	.00	.00	23	.00	.00	.00	.00
AC-FT	228	.00	.00	.02	617	476	1080	2670	284	127	43	.00

CAL YR 1979 TOTAL 1230.48 MEAN 3.37 MAX 92 MIN .00 AC-FT 2440
WTR YR 1980 TOTAL 2787.36 MEAN 7.62 MAX 101 MIN .00 AC-FT 5530

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1976 to current year.

REMARKS.--No flow observed Oct. 26, Nov. 27, Dec. 17, July 14, Aug. 6, Sept. 12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
23...	1245	--	.42	1420	--	3.0	1800	--	--	--	--
JAN											
21...	1720	.01	--	2800	7.7	.0	--	10.8	8.2	--	--
FEB											
21...	0930	45	--	1400	--	.5	2000	--	--	--	--
26...	1730	30	--	1290	8.0	1.0	--	11.4	6.9	370	270
MAR											
03...	1405	18	--	1300	--	.0	9000	--	--	--	--
19...	1440	13	--	2500	8.5	3.0	30400	11.2	7.0	880	720
APR											
07...	1000	--	11	1500	--	.0	91200	--	--	--	--
17...	1020	--	24	2250	8.4	7.0	108000	11.2	7.0	1000	890
29...	1015	--	27	1500	--	12.0	23100	--	--	--	--
MAY											
06...	0945	--	42	1800	7.9	10.5	1300	8.3	--	640	480
JUN											
04...	0930	--	12	1500	8.5	12.0	1800	8.3	2.4	700	470
AUG											
26...	0930	--	33	5000	8.4	13.0	30000	4.5	3.8	1500	1400

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN											
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
21...	--	--	--	--	--	--	--	--	--	--	--
26...	81	41	120	2.7	8.6	100	440	72	.2	3.8	827
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
19...	170	110	280	4.1	14	160	1000	180	.3	5.1	1860
APR											
07...	--	--	--	--	--	--	--	--	--	--	--
17...	220	120	200	2.7	15	150	1100	94	.5	6.8	1850
29...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	140	71	120	2.1	9.4	160	610	57	.4	8.6	1110
JUN											
04...	130	90	130	2.1	8.1	230	590	67	.4	12	1170
AUG											
26...	290	190	660	7.4	23	150	2200	440	.3	7.0	3900

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)
OCT											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN											
21...	--	--	--	--	--	--	--	--	--	--	--
FEB											
21...	--	--	--	--	--	--	--	--	--	--	--
26...	1.12	67.0	.96	.320	.39	.14	.46	1.4	6.3	1.400	4.3
MAR											
03...	--	--	--	--	--	--	--	--	--	--	--
19...	2.53	65.3	.47	.370	.45	18	18	18	82	4.000	12
APR											
07...	--	--	--	--	--	--	--	--	--	--	--
17...	2.52	120	.68	.270	.33	31	31	32	140	5.300	16
29...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	1.51	126	.75	.150	.18	31	31	32	140	16.000	49
JUN											
04...	1.59	37.9	.11	.040	.05	3.6	3.6	3.7	16	2.800	8.6
AUG											
26...	5.30	347	2.0	.040	.05	90	90	92	410	27.000	83

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)
FEB										
26...	1730	--	--	--	250	--	--	--	--	--
MAR										
19...	1440	--	--	--	970	--	--	--	--	--
APR										
17...	1020	60000	120	30	910	6	360	360	380000	380000
MAY										
06...	0945	--	--	--	350	--	--	--	--	--
JUN										
04...	0930	--	--	--	350	--	--	--	--	--
AUG										
26...	0930	--	--	--	850	--	--	--	--	--

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
FEB									
26...	<10	--	--	--	--	--	--	--	--
MAR									
19...	2100	--	--	--	--	--	--	--	--
APR									
17...	110	350	650	12000	.2	2	510	20	2000
MAY									
06...	90	--	--	--	--	--	--	--	--
JUN									
04...	130	--	--	--	--	--	--	--	--
AUG									
26...	70	--	--	--	--	--	--	--	--

09216750 SALT WELLS CREEK NEAR SALT WELLS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT											
23...	1245	3.0	--	.42	1160	1.3	--	--	--	--	--
FEB											
21...	0930	.5	45	--	501	61	90	97	100	--	--
MAR											
03...	1405	.0	18	--	5840	284	--	--	--	--	--
19...	1440	3.0	13	--	19200	674	54	86	99	100	--
APR											
07...	1000	.0	--	11	28600	849	54	90	100	--	--
17...	1020	7.0	--	24	34700	2260	53	87	99	100	--
29...	1015	12.0	--	27	15200	1110	38	58	93	100	--
MAY											
06...	0945	10.5	--	42	30800	3490	40	68	96	100	--
JUN											
04...	0930	12.0	--	12	3870	125	--	--	--	--	32
AUG											
26...	0930	13.0	--	33	69900	6230	59	95	100	--	45

DATE	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT										
23...	--	--	--	--	--	--	--	--	--	--
FEB										
21...	--	--	--	--	--	--	--	--	--	--
MAR										
03...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
MAY										
06...	--	--	--	--	--	--	--	--	--	--
JUN										
04...	62	69	70	71	74	76	80	82	82	100
AUG										
26...	67	80	83	84	86	90	96	99	100	--

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WY

LOCATION.--Lat 41°35'56", long 109°13'54", in NW¼SW¼NW¼ sec.26, T.19 N., R.105 W., Sweetwater County, Hydrologic Unit 14040105, 0.6 mi (1.0 km) downstream from Interstate Highway 80, 0.8 mi (1.3 km) upstream from mouth, and 1.2 mi (1.9 km) northwest of Rock Springs.

PERIOD OF RECORD.--Water years 1975 to September 1980 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARDNESS (MG/L AS CACO3)
OCT 26...	0840	.11	>8000	7.8	3.0	35	3.8	--	2000	2300
NOV 29...	0930	.78	3200	7.8	5.5	25	7.7	--	--	520
DEC 20...	1300	.64	6000	6.8	7.0	10	4.1	--	830000	1100
JAN 22...	0905	.16	>8000	7.5	.0	45	7.1	--	K65000	2200
MAR 11...	1445	.71	7000	7.5	11.0	30	7.7	--	4200	1800
APR 14...	1025	1.4	4800	8.2	6.0	900	9.5	--	K1	770
MAY 19...	1130	2.9	4000	8.9	11.5	250	9.2	4.7	4500	560
JUN 13...	0915	.22	8000	8.1	8.5	15	8.2	5.8	7500	1800
JUL 07...	0955	.54	7000	8.7	17.0	110	8.1	>7.4	K13000	1900
AUG 11...	0955	.10	6000	8.1	10.0	25	4.7	6.8	K670	--
SEP 03...	1155	.28	3000	8.6	15.0	20	8.0	9.0	620	730

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	SODIUM+POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
OCT 26...	1800	200	440	1400	13	1400	15	510	2700
NOV 29...	270	84	75	210	4.0	230	20	250	500
DEC 20...	840	140	180	500	6.6	530	34	250	1200
JAN 22...	2000	210	400	1200	11	1300	51	190	2400
MAR 11...	1500	240	300	760	7.7	790	34	360	1600
APR 14...	460	95	130	740	12	--	16	310	1100
MAY 19...	66	71	92	590	11	--	14	490	870
JUN 13...	1400	220	310	1000	10	--	62	450	2000
JUL 07...	1400	320	260	600	6.0	--	65	510	2100
AUG 11...	--	--	--	--	--	--	--	--	--
SEP 03...	520	110	110	320	5.2	--	6.5	210	640

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WYContinued

WATERQUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)
OCT 26...	1600	.7	12	6680	9.08	1.98	.26	7.600	9.2
NOV 29...	160	.3	8.0	1210	1.65	2.55	.04	27.000	33
DEC 20...	510	.5	12	2730	3.71	4.72	.07	11.000	13
JAN 22...	1400	.7	13	5790	7.87	2.50	.69	6.300	7.6
MAR 11...	910	.6	9.3	4070	5.54	7.80	.52	4.600	5.6
APR 14...	630	.9	7.0	2910	3.96	11.0	.57	2.200	2.7
MAY 19...	340	1.3	14	2290	3.11	17.9	.17	.830	1.0
JUN 13...	1200	.8	4.4	5070	6.90	3.01	.38	5.700	6.9
JUL 07...	480	1.0	11	4150	5.64	6.05	.00	3.700	4.5
AUG 11...	--	--	--	--	--	--	--	--	--
SEP 03...	350	.4	2.7	1670	2.27	1.26	.34	.250	.30

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
OCT 26...	3.4	11	11	50	3.200	9.8	19	34	1.1
NOV 29...	16	43	43	190	5.000	15	--	--	--
DEC 20...	5.0	16	16	71	7.200	22	--	--	--
JAN 22...	9.7	16	17	74	1.400	4.3	--	--	--
MAR 11...	3.6	8.2	8.7	39	1.200	3.7	--	--	--
APR 14...	9.8	12	13	56	3.200	9.8	--	15	.6
MAY 19...	5.6	6.4	6.6	29	.200	.61	--	--	--
JUN 13...	2.4	8.1	8.5	38	2.800	8.6	--	24	--
JUL 07...	5.6	9.3	9.3	41	2.200	6.7	--	--	--
AUG 11...	--	--	--	--	--	--	--	--	--
SEP 03...	2.1	2.3	2.6	12	.250	.77	--	--	--

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
OCT 26...	0840	100	70	30	0	0	7	0	0	0	1900	0
NOV 29...	0930	--	--	--	--	--	--	--	--	--	410	--
DEC 20...	1300	--	--	--	--	--	--	--	--	--	860	--
JAN 22...	0905	--	--	--	--	--	--	--	--	--	1700	--
MAR 11...	1445	--	--	--	--	--	--	--	--	--	1200	--
APR 14...	1025	21000	20000	1300	13	7	6	0	0	0	930	1
MAY 19...	1130	--	--	--	--	--	--	--	--	--	1000	--
JUN 13...	0915	230	120	110	6	1	5	0	0	0	1900	0
JUL 07...	0955	--	--	--	--	--	--	--	--	--	1800	--
SEP 03...	1155	--	--	--	--	--	--	--	--	--	520	--

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)
OCT 26...	0	2	10	10	0	5	5	0	4700	--	1600	7
NOV 29...	--	--	--	--	--	--	--	--	--	--	140	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	270	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	1300	--
MAR 11...	--	--	--	--	--	--	--	--	--	--	100	--
APR 14...	1	0	40	30	10	31	18	13	2700	1400	1300	19
MAY 19...	--	--	--	--	--	--	--	--	--	--	110	--
JUN 13...	0	1	0	0	10	10	4	6	4800	4100	750	2
JUL 07...	--	--	--	--	--	--	--	--	--	--	150	--
SEP 03...	--	--	--	--	--	--	--	--	--	--	50	--

09216810 KILLPECKER CREEK AT ROCK SPRINGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM SUS- PENDED RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)
OCT												
26...	6	1	350	0	370	2000	100	1900	.0	.0	.1	4
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
14...	16	3	180	60	120	1100	680	420	.2	.2	.0	22
MAY												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	2	0	310	30	280	2300	100	2200	.0	.0	.0	8
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB- DENUM, SUS- PENDED RECOV. (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT												
26...	0	4	12	6	6	0	0	0	--	60	30	30
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
14...	0	23	30	25	5	0	0	1	8.0	320	290	30
MAY												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	0	10	21	12	9	1	0	1	10	90	0	100
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	--	--	--	--	--	--	--	--	--	--	--	--

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY

LOCATION.--Lat 41°33'00", long 109°18'15", in NW¼SE¼SW¼ sec.7, T.18 N., R.105 W., Sweetwater County, Hydrologic Unit 14040105, at bridge on State Highway 373, 2.0 mi (3.2 km) east of Kanda, and 5.0 mi (8.0 km) west of Rock Springs.

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT										
26...	0830	3.8	3500	8.0	6.0	15	7.0	830000	740	440
NOV										
29...	1245	1.7	3400	7.8	.5	20	12.4	430000	530	150
DEC										
20...	1530	3.3	3600	7.8	7.0	9	3.8	1600000	510	300
JAN										
22...	1255	11	3800	7.8	.0	10	5.8	K180000	990	700
MAR										
11...	1235	16	2000	7.6	5.5	700	12.0	110000	470	290
APR										
14...	1305	56	1500	8.2	8.0	4000	8.8	79000	--	--
MAY										
19...	1430	222	2000	8.1	13.5	8800	8.5	150000	600	440
JUN										
13...	1050	6.7	3500	8.4	15.0	65	8.4	120000	850	580
JUL										
07...	1315	5.5	3500	7.8	21.0	3800	5.7	47000	750	530
AUG										
11...	1315	4.5	2200	8.1	23.0	700	5.4	24000	--	--
SEP										
03...	0830	1.8	2200	8.5	10.0	25	8.2	K2400000	360	69

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT									
26...	130	100	480	7.7	500	20	300	840	420
NOV									
29...	90	74	500	9.5	520	22	380	620	470
DEC									
20...	86	72	410	7.9	430	18	210	540	450
JAN									
22...	150	150	490	6.8	690	15	290	1100	400
MAR									
11...	79	67	280	5.6	290	11	180	550	230
APR									
14...	--	--	--	--	--	--	430	390	100
MAY									
19...	120	74	190	3.4	--	7.4	160	720	120
JUN									
13...	110	140	520	7.8	--	15	270	1000	430
JUL									
07...	120	110	550	8.7	--	15	220	1100	470
AUG									
11...	--	--	--	--	--	--	--	--	--
SEP									
03...	63	49	360	8.3	--	14	290	420	340

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)
OCT									
26...	.5	7.7	2180	2.96	22.4	44	1.1	13.000	16
NOV									
29...	.6	9.1	2020	2.75	9.44	--	.03	28.000	34
DEC									
20...	.5	12	1720	2.34	15.3	--	.08	20.000	24
JAN									
22...	.6	9.6	2490	3.39	75.3	--	1.2	5.800	7.0
MAR									
11...	.5	5.7	1330	1.81	57.8	--	.52	1.800	2.2
APR									
14...	.5	7.0	756	1.03	114	--	.41	.910	1.1
MAY									
19...	.5	7.5	1340	1.82	803	--	1.2	.040	.05
JUN									
13...	.7	9.6	2390	3.25	43.2	--	.79	2.800	3.4
JUL									
07...	.9	5.3	2510	3.41	37.3	--	1.7	2.200	2.7
AUG									
11...	--	--	--	--	--	--	--	--	--
SEP									
03...	.5	6.0	1430	1.94	6.95	--	.62	1.000	1.2

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
OCT									
26...	3.0	16	17	76	.490	1.5	21	16	2.1
NOV									
29...	1.0	29	29	130	9.600	29	--	--	--
DEC									
20...	2.0	22	22	98	8.700	27	--	--	--
JAN									
22...	2.7	8.5	9.7	43	3.200	9.8	--	--	--
MAR									
11...	2.4	4.2	4.7	21	2.400	7.4	--	--	--
APR									
14...	15	16	16	73	6.900	21	--	7.2	.9
MAY									
19...	18	18	19	85	5.400	17	--	--	--
JUN									
13...	1.1	3.9	4.7	21	1.900	5.8	--	11	--
JUL									
07...	1.1	3.3	5.0	22	3.000	9.2	--	--	--
AUG									
11...	--	--	--	--	--	--	--	--	--
SEP									
03...	.10	1.1	1.7	7.6	11.000	34	--	--	--

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT 26...	0830	300	100	200	9	1	8	0	0	0	580	0
NOV 29...	1245	--	--	--	--	--	--	--	--	--	800	--
DEC 20...	1530	--	--	--	--	--	--	--	--	--	740	--
JAN 22...	1255	--	--	--	--	--	--	--	--	--	560	--
MAR 11...	1235	--	--	--	--	--	--	--	--	--	340	--
APR 14...	1305	--	--	--	40	--	--	10	--	--	220	3
MAY 19...	1430	--	--	370	--	--	2	--	--	0	280	--
JUN 13...	1050	1500	1500	20	5	1	4	0	0	0	730	0
JUL 07...	1315	--	--	--	--	--	--	--	--	--	730	--
SEP 03...	0830	--	--	--	--	--	--	--	--	--	550	--

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT 26...	0	0	0	0	0	7	7	0	580	--	360	7
NOV 29...	--	--	--	--	--	--	--	--	--	--	370	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	150	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	30	--
MAR 11...	--	--	--	--	--	--	--	--	--	--	1600	--
APR 14...	--	--	200	--	--	240	--	--	180000	--	--	180
MAY 19...	--	0	--	--	0	--	--	4	--	--	70	--
JUN 13...	0	0	0	0	0	8	6	2	3100	3100	40	2
JUL 07...	--	--	--	--	--	--	--	--	--	--	1900	--
SEP 03...	--	--	--	--	--	--	--	--	--	--	140	--

09216880 BITTER CREEK BELOW LITTLE BITTER CREEK, NEAR KANDA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
OCT 26...	7	0	90	0	100	240	0	250	.1	.0	.1	2
NOV 29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 11...	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	240	--	--	4700	--	--	.4	--	--	1
MAY 19...	--	1	--	--	60	--	--	20	--	--	.0	--
JUN 13...	2	0	140	10	130	130	60	70	.0	.0	.0	9
JUL 07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 26...	0	2	9	5	4	0	0	0	--	90	60	30
NOV 29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 20...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 11...	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	330	--	--	8	--	--	2.0	990	--	--
MAY 19...	--	7	--	--	4	--	--	3	1.0	--	--	50
JUN 13...	0	12	5	0	6	2	0	2	6.0	60	10	50
JUL 07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	--	--	--	--	--	--	--	--	--	--	--	--

09217000 GREEN RIVER NEAR GREEN RIVER, WY

LOCATION.--Lat 41°30'59", long 109°26'54", in NW¼NE¼NE¼ sec.26, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, on right bank 0.1 mi (0.2 km) downstream from Bitter Creek, 1.0 mi (1.6 km) southeast of town of Green River, and 4.0 mi (6.4 km) upstream from high-water line of Flaming Gorge Reservoir.

DRAINAGE AREA.--About 14,000 mi^2 (36,300 km^2), of which 4,260 mi^2 (11,030 km^2), including 3,959 mi^2 (10,254 km^2) in Great Divide Basin in southern Wyoming, is probably noncontributing.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1951 to current year.

REVISED RECORDS.--WSP 1713: 1957. WDR-76-2: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (1,847 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Some regulation by Fontenelle Reservoir since August 1963. (See sta 09211150.) Natural flow of stream affected by transbasin diversions, storage reservoirs, power development, and diversions for irrigation of about 223,000 acres (902 km^2) above station.

AVERAGE DISCHARGE.--29 years, 1,708 ft^3/s (48.37 m^3/s), 1,237,000 acre-ft/yr (1,525 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s (476 m^3/s) Sept. 7, 1965, gage height, 8.53 ft (2.600 m), caused by emergency release from Fontenelle Reservoir; minimum daily discharge, 170 ft^3/s (4.81 m^3/s) Nov. 16, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 22,200 ft^3/s (629 m^3/s) June 19, 1918, at site 1.5 mi (2.4 km) upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,360 ft^3/s (208 m^3/s) Apr. 25, gage height, 5.29 ft (1.612 m); minimum daily, 518 ft^3/s (14.7 m^3/s) Sept. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	556	758	970	970	660	670	1720	2120	5330	6010	1900	1650
2	702	744	910	980	670	680	1720	2100	5310	5760	1830	1640
3	709	744	970	1000	680	660	1690	2020	5280	5620	1750	1390
4	737	744	940	1050	670	650	1710	1950	5280	5760	1710	1240
5	730	751	900	1100	650	650	1780	1930	5280	6140	1620	1240
6	716	751	900	1000	630	640	2070	1970	5260	6390	1590	1250
7	723	730	900	940	620	660	2070	2070	5280	6210	1560	1240
8	702	744	920	960	610	690	1900	2020	5280	5840	1560	1240
9	730	779	960	940	600	710	1950	2140	5310	5350	1590	1250
10	730	765	980	850	620	680	2050	2160	5020	5020	1590	1290
11	723	772	1000	700	630	700	2000	2290	4260	4650	1560	1330
12	723	758	980	680	660	730	1930	2440	3470	4240	1560	1330
13	723	744	950	670	680	700	1950	2380	2750	3920	1560	1350
14	737	744	980	670	690	750	1900	2210	2600	3670	1560	1350
15	723	744	1000	670	690	800	1930	2180	2580	3450	1580	1330
16	723	744	1010	660	700	700	1950	2160	3230	3290	1630	1330
17	737	744	1060	650	730	680	1800	2230	5000	3140	1660	1290
18	737	744	1080	630	750	730	2030	2250	5760	3010	1660	1260
19	758	740	1100	600	760	720	2310	2250	5860	2870	1620	1260
20	793	720	1100	600	760	720	2980	3030	5910	2790	1630	1120
21	772	700	1100	620	750	850	3560	3420	6040	2680	1570	920
22	786	730	1100	640	730	940	3120	3490	6310	2600	1580	680
23	772	700	1100	600	700	1000	2620	3400	6740	2600	1580	590
24	765	800	1050	580	670	1070	3890	3400	7120	2560	1600	530
25	758	900	1000	600	630	1220	6060	3420	7200	2500	1630	524
26	751	930	1020	620	620	1350	3450	3360	7150	2420	1650	518
27	744	950	1000	570	610	1650	2730	3340	6960	2380	1630	524
28	751	1040	950	530	610	1850	2360	4240	6690	2270	1630	524
29	751	1100	920	560	630	1850	2180	5620	6510	2230	1600	556
30	751	1050	900	590	---	1930	2100	5640	6290	2100	1620	790
31	751	---	920	620	---	1850	---	5500	---	2000	1630	---
TOTAL	22764	23864	30670	22850	19410	29480	71510	88730	161060	119470	50440	32536
MEAN	734	795	989	737	669	951	2384	2862	5369	3854	1627	1085
MAX	793	1100	1100	1100	760	1930	6060	5640	7200	6390	1900	1650
MIN	556	700	900	530	600	640	1690	1930	2580	2000	1560	518
AC-FT	45150	47330	60830	45320	38500	58470	141800	176000	319500	237000	100000	64540

CAL YR 1979 TOTAL 487847 MEAN 1337 MAX 4790 MIN 385 AC-FT 967600
WTR YR 1980 TOTAL 672784 MEAN 1838 MAX 7200 MIN 518 AC-FT 1334000

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY RECORDS

LOCATION.--Daily water temperatures and samples of specific conductance and sediment collected at bridge on State Highway 530 in town of Green River, 0.8 mi (1.3 km) upstream from Bitter Creek and 1.0 mi (1.6 km) upstream from discharge station.

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1951 to current year.
WATER TEMPERATURES: May 1951 to current year.
SEDIMENT CONCENTRATIONS: May 1951 to current year.
SEDIMENT LOADS: May 1951 to current year.

REMARKS.--Flow affected by ice Nov. 20, Nov. 22 to Mar. 24.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum observed, 1,530 micromhos June 29, 1977; minimum daily, 219 micromhos May 22, 1954.
WATER TEMPERATURES: Maximum, 29.0°C July 1, 1977; minimum, 0.0°C on many days during winter period.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 15,000 mg/L Aug. 11, 1963; minimum daily mean, 0 mg/L Sept. 18, 1962.
SEDIMENT LOADS: Maximum daily, 110,000 tons (99,800 tonnes) Mar. 28, 1962; minimum daily, 0 ton Sept. 18, 1962.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum observed, 933 micromhos Mar. 10; minimum observed, 334 micromhos July 8, 9.
WATER TEMPERATURES: Maximum, 21.0°C June 12, July 17, 22, 27; minimum, 0.0°C on many days during November to March.
SEDIMENT CONCENTRATIONS: Maximum daily mean, 2,770 mg/L Apr. 25; minimum daily mean, 4 mg/L July 30, Sept. 26.
SEDIMENT LOADS: Maximum daily, 45,300 tons (41,100 tonnes) Apr. 25; minimum daily, 5.6 tons (5.1 tonnes) Sept. 26.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT											
09...	1015	--	735	670	--	9.0	8	--	--	--	--
26...	0845	--	751	710	8.5	8.0	--	10.4	16	K16	K12
NOV											
07...	1430	--	735	730	--	4.0	--	--	--	--	--
29...	1500	1100	--	590	8.7	.0	--	9.7	22	25	100
DEC											
11...	1130	--	973	550	--	.0	4	--	--	--	--
19...	0810	1100	--	560	8.1	.0	--	11.8	12	14	12
JAN											
08...	1130	--	862	540	--	.5	4	--	--	--	--
22...	1215	640	--	650	8.3	.5	--	10.8	--	2	6
24...	1000	--	540	--	--	.0	9	--	--	--	--
MAR											
11...	0730	700	--	600	7.8	.0	--	10.2	--	2	12
25...	0930	--	1160	750	--	1.5	400	--	--	--	--
APR											
14...	1400	--	1880	650	8.5	8.5	--	10.8	9	K2	10
MAY											
15...	1045	--	2120	600	8.4	9.0	--	10.6	23	K3	K12
JUN											
13...	1500	--	2620	580	8.7	17.0	--	8.5	9	K11	K5
JUL											
10...	1200	--	5020	370	7.9	20.0	180	8.2	13	56	K1
AUG											
11...	1200	--	1570	530	8.7	18.0	2	8.0	--	K1	K29
SEP											
05...	1045	--	1250	570	8.6	15.0	2	9.2	11	K6	27

K-Results based on colony count outside the acceptable range (non-ideal colony count).

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT											
09...	--	--	--	--	--	--	--	--	--	--	--
26...	210	74	51	21	64	1.9	12	140	190	9.9	.3
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
29...	200	61	51	18	42	1.3	2.0	140	140	6.9	.3
DEC											
11...	--	--	--	--	--	--	--	--	--	--	--
19...	220	77	54	20	46	1.4	3.8	140	160	7.1	.3
JAN											
08...	--	--	--	--	--	--	--	--	--	--	--
22...	260	31	65	24	60	1.6	2.2	160	210	8.7	.3
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
11...	280	120	70	26	68	1.8	2.6	160	230	9.8	.3
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
14...	230	90	59	20	42	1.2	2.1	140	150	8.0	.2
MAY											
15...	230	78	55	22	73	2.1	3.1	150	200	14	.2
JUN											
13...	180	65	46	17	32	1.0	2.2	120	120	7.4	.2
JUL											
10...	140	34	38	12	19	.7	1.7	110	61	3.7	.2
AUG											
11...	170	38	41	16	40	1.3	1.8	130	110	7.7	.2
SEP											
05...	190	67	45	18	44	1.4	1.8	120	150	7.1	.2

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)
OCT											
09...	--	--	--	--	--	--	--	--	--	--	--
26...	5.7	477	439	.60	890	22	.13	.11	.040	.070	.05
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
29...	5.3	364	350	.48	1040	22	.08	.08	.010	.010	.01
DEC											
11...	--	--	--	--	--	--	--	--	--	--	--
19...	5.8	381	384	.52	1140	13	.06	.61	.020	.000	.02
JAN											
08...	--	--	--	--	--	--	--	--	--	--	--
22...	7.3	478	518	.70	895	--	.11	.58	.010	.060	.01
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
11...	6.8	508	510	.69	964	--	.12	.13	.180	.080	.22
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
14...	6.1	506	372	.51	1890	77	.03	.13	.390	.020	.47
MAY											
15...	6.4	481	464	.63	2660	64	.02	.06	.030	.040	.04
JUN											
13...	6.0	303	304	.41	2150	11	.06	.20	.040	.000	.05
JUL											
10...	6.8	230	209	.28	2830	22	.04	.04	.010	.000	.01
AUG											
11...	5.5	318	301	.41	1280	0	.05	.08	--	--	--
SEP											
05...	4.3	346	346	.47	1170	26	.00	.69	.000	.000	.00

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)
OCT											
09...	--	--	--	--	--	--	--	--	--	--	--
26...	.09	.96	1.0	1.0	.00	1.1	1.1	1.2	5.0	.020	.06
NOV											
07...	--	--	--	--	--	--	--	--	--	--	--
29...	.01	.46	.40	.47	.06	.41	.55	.49	2.4	.000	.00
DEC											
11...	--	--	--	--	--	--	--	--	--	--	--
19...	.00	1.1	1.2	1.1	.00	1.2	1.2	1.8	5.1	.010	.03
JAN											
08...	--	--	--	--	--	--	--	--	--	--	--
22...	.08	.94	.33	.95	.56	.39	1.1	.97	4.7	.040	.12
24...	--	--	--	--	--	--	--	--	--	--	--
MAR											
11...	.10	.70	.73	.88	.07	.81	1.0	.94	4.4	.050	.15
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
14...	.03	.03	--	.42	--	--	.45	--	2.0	.090	.28
MAY											
15...	.05	.96	.73	.99	.22	.77	1.0	.83	4.5	.130	.40
JUN											
13...	.00	.48	.56	.52	.00	.56	.58	.76	2.6	.040	.12
JUL											
10...	.00	.82	.59	.83	.24	.59	.87	.63	3.9	.050	.15
AUG											
11...	--	--	--	--	--	--	--	--	--	.050	.15
SEP											
05...	.00	.76	.60	.76	.16	.60	.76	1.3	3.4	.010	.03

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLOROPHYLL RATIO PERIPHYTON (UNITS)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
OCT										
09...	--	--	--	--	--	--	--	--	--	--
26...	.010	--	3.6	.5	2600	--	--	--	--	--
NOV										
07...	--	--	--	--	--	--	--	--	--	--
29...	.000	5.2	--	--	--	--	--	--	--	--
DEC										
11...	--	--	--	--	--	--	--	--	--	--
19...	.000	6.5	--	--	--	--	--	--	--	--
JAN										
08...	--	--	--	--	--	--	--	--	--	--
22...	.000	--	5.9	.6	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
MAR										
11...	.010	6.9	--	--	310	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
APR										
14...	.040	--	5.3	.6	--	--	--	--	--	--
MAY										
15...	.010	5.5	--	--	710	--	--	--	--	--
JUN										
13...	.010	8.5	--	--	180	.787	1.18	--	.000	.000
JUL										
10...	.010	--	--	--	1100	.079	.079	.00	.020	.000
AUG										
11...	.010	--	--	--	160	1.34	2.05	--	.000	.150
SEP										
05...	.000	8.0	--	--	19000	1.81	2.44	354	1.78	.710

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
OCT 26...	0845	1	0	1	400	300	80	3	0	3	10
DEC 19...	0810	--	--	--	--	--	--	--	--	--	--
JAN 22...	1215	1	0	1	200	100	60	5	0	23	0
MAR 11...	0730	--	--	--	--	--	--	--	--	--	--
APR 14...	1400	1	1	0	100	40	60	0	--	<1	0
JUN 13...	1500	--	--	--	--	--	--	--	--	--	--
JUL 10...	1200	2	1	1	0	0	50	1	--	<1	10
SEP 05...	1045	--	--	--	--	--	--	--	--	--	--

DATE	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
OCT 26...	0	10	0	0	6	7	0	16	560	450	110
DEC 19...	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	0	0	1	0	<3	10	10	0	380	370	<10
MAR 11...	--	--	--	--	--	--	--	--	--	--	--
APR 14...	0	0	2	--	<3	18	5	13	2000	1900	100
JUN 13...	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	0	10	0	--	<3	410	400	7	530	500	30
SEP 05...	--	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)
OCT 26...	6	6	0	60	40	20	.3	.0	--	0	0
DEC 19...	--	--	--	--	--	--	--	--	--	--	--
JAN 22...	3	3	0	10	5	5	.1	.1	.0	5	3
MAR 11...	--	--	--	--	--	--	--	--	--	--	--
APR 14...	19	15	4	70	60	6	.1	.1	.0	6	2
JUN 13...	--	--	--	--	--	--	--	--	--	--	--
JUL 10...	400	400	3	30	30	4	.2	.2	.0	9	6
SEP 05...	--	--	--	--	--	--	--	--	--	--	--

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT										
26...	0	0	0	1	0	0	0	150	90	60
DEC										
19...	--	--	--	--	0	--	--	--	--	--
JAN										
22...	2	0	0	0	0	0	0	0	0	10
MAR										
11...	--	--	--	--	2	--	--	--	--	--
APR										
14...	4	0	0	0	0	0	0	30	0	70
JUN										
13...	--	--	--	--	0	--	--	--	--	--
JUL										
10...	3	0	0	0	0	0	0	80	70	6
SEP										
05...	--	--	--	--	0	--	--	--	--	--

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT									
09...	1015	9.0	--	735	21	42	--	--	--
NOV									
07...	1430	4.0	--	735	13	26	--	--	--
29...	1500	.0	1100	--	18	53	--	--	--
DEC									
11...	1130	.0	--	973	18	47	--	--	--
19...	0810	.0	1100	--	20	59	--	--	--
JAN									
08...	1130	.5	--	862	14	33	--	--	--
22...	1215	.5	640	--	55	95	--	--	--
MAR									
25...	0930	1.5	--	1160	420	1320	58	81	95
APR									
14...	1400	8.5	--	1880	116	--	--	--	--
25...	0730	9.5	--	7280	3150	61900	56	75	87
MAY									
15...	1045	9.0	--	2120	86	492	--	--	--
JUN									
16...	1500	14.5	--	3380	43	356	--	--	--
JUL									
10...	1200	20.0	--	5020	33	447	--	--	--
AUG									
11...	1200	18.0	--	1570	7	42	--	--	--
SEP									
05...	1045	15.0	--	1250	6	27	--	--	--
24...	1445	14.0	--	530	8	--	--	--	--

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	NUMBER OF SAM-PLING POINTS	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
OCT									
09...	--	--	--	--	--	--	--	--	--
NOV									
07...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--
DEC									
11...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
JAN									
08...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
MAR									
25...	98	99	100	--	--	--	--	--	--
APR									
14...	--	--	--	87	--	--	--	--	--
25...	94	100	--	--	--	--	--	--	--
MAY									
15...	--	--	--	89	--	--	--	--	--
JUN									
16...	--	--	--	83	--	--	--	--	--
JUL									
10...	--	--	--	53	--	--	--	--	--
AUG									
11...	--	--	--	96	--	--	--	--	--
SEP									
05...	--	--	--	81	--	--	--	--	--
24...	--	--	--	83	100	10	18	67	93

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	739	626	558	616	741	787	530	700	434	340	424	464
2	630	623	622	593	728	804	571	728	438	345	447	478
3	614	634	615	593	733	806	542	683	438	351	445	469
4	608	612	612	605	695	811	592	635	433	351	445	515
5	608	623	558	584	681	815	588	649	427	340	458	704
6	608	628	556	590	684	813	584	621	422	340	526	520
7	602	642	553	602	687	831	549	722	422	335	458	512
8	608	639	575	599	700	847	561	631	405	334	459	526
9	614	636	577	603	706	850	636	891	399	334	463	525
10	610	629	564	---	718	933	583	737	409	339	454	532
11	610	637	582	626	715	858	573	666	420	344	454	544
12	616	620	577	714	721	858	627	768	436	351	453	536
13	608	623	573	693	705	879	594	714	453	356	458	569
14	616	632	568	687	697	843	604	669	453	367	453	544
15	616	608	546	676	670	747	664	674	458	369	453	532
16	616	577	568	649	678	760	644	709	458	376	460	528
17	630	520	573	643	692	715	631	606	414	385	503	536
18	624	601	563	721	694	670	588	643	392	389	509	519
19	619	608	558	715	654	641	595	666	380	386	481	513
20	613	647	553	751	675	667	561	601	371	386	472	536
21	613	606	553	697	673	613	557	518	362	386	481	575
22	664	664	561	702	678	704	667	501	361	408	470	646
23	656	673	566	732	683	607	698	485	371	402	460	733
24	639	687	563	734	712	727	670	480	355	397	456	804
25	658	541	565	713	723	705	545	487	356	404	465	815
26	624	502	565	---	673	710	620	485	350	397	462	815
27	622	537	596	732	772	617	670	449	346	400	462	817
28	624	528	589	811	780	551	662	483	340	404	473	812
29	627	528	589	816	791	594	667	425	347	414	479	746
30	627	550	618	783	---	594	684	425	346	414	470	743
31	628	---	621	766	---	581	---	429	---	424	468	---
MEAN	626	606	575	681	705	740	609	609	400	373	465	604

WTR YR 1980 MEAN 582 MAX 933 MIN 334

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	3.0	.0	.0	.0	.0	4.0	10.0	14.0	16.0	18.0	16.0
2	17.0	4.0	.0	.0	.0	.0	4.0	13.0	14.0	15.0	18.0	16.0
3	15.0	5.0	.0	.0	.0	.0	4.0	13.0	15.0	19.0	18.0	17.0
4	15.0	5.0	.0	.0	.0	.0	4.0	12.0	15.0	14.0	18.0	13.0
5	16.0	5.0	.0	.0	.0	.0	6.0	14.0	15.0	16.0	19.0	19.0
6	19.0	4.0	.0	.0	.0	.0	5.0	15.0	15.0	19.0	16.0	17.0
7	20.0	4.0	.0	.0	.0	.0	2.5	14.0	16.0	19.0	18.0	18.0
8	18.0	5.0	.5	.0	.0	.0	5.0	12.0	16.0	18.0	18.0	18.0
9	12.0	4.0	.5	.0	.0	.0	6.0	12.0	18.0	20.0	18.0	17.0
10	15.0	4.0	.0	.0	.0	.0	5.0	10.0	20.0	17.0	20.0	15.0
11	16.0	2.0	.0	.0	.0	.0	4.0	9.0	20.0	19.0	20.0	13.0
12	17.0	2.0	.0	.0	.0	.0	4.0	8.0	21.0	18.0	20.0	13.0
13	14.0	4.0	.0	.0	.0	.0	6.0	10.0	18.0	17.0	17.0	16.0
14	12.0	2.0	.0	.0	.0	.0	9.0	13.0	17.0	17.0	20.0	12.0
15	11.0	2.0	.0	.0	.0	.0	9.0	12.0	16.0	19.0	18.0	12.0
16	11.0	6.0	.0	.0	.0	.0	9.0	10.0	17.0	20.0	17.0	11.0
17	12.0	3.0	.0	.0	.0	.0	12.0	10.0	17.0	21.0	19.0	17.0
18	13.0	4.0	.0	.0	.0	.0	12.0	12.0	17.0	16.0	16.0	11.0
19	11.0	2.0	.0	.0	.0	.0	14.0	12.0	16.0	19.0	15.0	14.0
20	7.0	.0	.0	.0	.0	.0	10.0	16.0	17.0	20.0	17.0	15.0
21	7.0	3.0	.0	.0	.0	.0	10.0	16.0	16.0	20.0	18.0	12.0
22	5.0	.0	.0	.0	.0	.0	9.0	15.0	18.0	21.0	19.0	14.0
23	9.0	.0	.0	.0	.0	.0	9.0	16.0	15.0	19.0	14.0	12.0
24	9.0	.0	.0	.0	.0	.0	8.0	12.0	17.0	19.0	18.0	13.0
25	11.0	.0	.0	.0	.0	1.0	10.0	13.0	17.0	19.0	14.0	13.0
26	11.0	.0	.0	.0	.0	3.0	10.0	14.0	16.0	20.0	14.0	14.0
27	10.0	.0	.0	.0	.0	2.0	12.0	13.0	17.0	21.0	15.0	12.0
28	9.0	.0	.0	.0	.0	4.0	14.0	13.0	15.0	20.0	15.0	14.0
29	4.0	.0	.0	.0	.0	4.0	12.0	13.0	15.0	15.0	19.0	14.0
30	5.0	.0	.0	.0	---	4.0	10.0	15.0	16.0	19.0	17.0	13.0
31	4.0	---	.0	.0	---	3.0	---	14.0	---	20.0	15.0	---
MEAN	12.0	2.5	.0	.0	.0	.5	8.0	12.5	16.5	18.5	17.5	14.5

WTR YR 1980 MEAN 8.5 MAX 21.0 MIN .0

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	556	28	42	758	12	25	970	6	16
2	702	36	68	744	11	22	910	7	17
3	709	26	50	744	13	26	970	7	18
4	737	26	52	744	12	24	940	6	15
5	730	21	41	751	14	28	900	5	12
6	716	67	130	751	12	24	900	6	15
7	723	27	53	730	10	20	900	6	15
8	702	20	38	744	13	26	920	13	32
9	730	21	41	779	15	32	960	10	26
10	730	21	41	765	16	33	980	21	56
11	723	22	43	772	10	21	1000	20	54
12	723	21	41	758	10	20	980	11	29
13	723	24	47	744	12	24	950	9	23
14	737	27	54	744	20	40	980	10	26
15	723	31	61	744	26	52	1000	9	24
16	723	18	35	744	13	26	1010	8	22
17	737	21	42	744	14	28	1060	11	31
18	737	24	48	744	14	28	1080	12	35
19	758	32	65	740	13	26	1100	13	39
20	793	30	64	720	14	27	1100	8	24
21	772	22	46	700	12	23	1100	15	45
22	786	19	40	730	16	32	1100	15	45
23	772	20	42	700	46	87	1100	10	30
24	765	20	41	800	14	30	1050	9	26
25	758	17	35	900	5	12	1000	10	27
26	751	27	55	930	29	73	1020	10	28
27	744	21	42	950	18	46	1000	8	22
28	751	23	47	1040	11	31	950	12	31
29	751	15	30	1100	13	39	920	10	25
30	751	15	30	1050	6	17	900	9	22
31	751	12	24	---	---	---	920	13	32
TOTAL	22764	---	1488	23864	---	942	30670	---	862
		JANUARY			FEBRUARY			MARCH	
1	970	10	26	660	16	29	670	33	60
2	980	13	34	670	13	24	680	65	119
3	1000	12	32	680	17	31	660	39	69
4	1050	12	34	670	23	42	650	30	53
5	1100	13	39	650	18	32	650	51	90
6	1000	15	40	630	17	29	640	46	79
7	940	9	23	620	19	32	660	23	41
8	960	11	29	610	17	28	690	21	39
9	940	12	30	600	17	28	710	25	48
10	850	24	55	620	18	30	680	23	42
11	700	12	23	630	18	31	700	33	62
12	680	8	15	660	28	50	730	37	73
13	670	21	38	680	27	50	700	41	77
14	670	32	58	690	27	50	750	43	87
15	670	30	54	690	20	37	800	135	292
16	660	34	61	700	16	30	700	275	520
17	650	27	47	730	24	47	680	140	257
18	630	31	53	750	37	75	730	135	266
19	600	22	36	760	88	181	720	128	249
20	600	47	76	760	103	211	720	158	307
21	620	41	69	750	75	152	850	375	861
22	640	38	66	730	150	296	940	485	1230
23	600	27	44	700	185	350	1000	470	1270
24	580	24	38	670	80	145	1070	320	924
25	600	21	34	630	85	145	1220	260	856
26	620	14	23	620	225	377	1350	110	401
27	570	15	23	610	115	189	1650	180	802
28	530	19	27	610	50	82	1850	290	1450
29	560	19	29	630	45	77	1850	248	1240
30	590	17	27	---	---	---	1930	325	1690
31	620	18	30	---	---	---	1850	235	1170
TOTAL	22850	---	1213	19410	---	2880	29480	---	14724

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	1720	100	464	2120	425	2430	5330	110	1580
2	1720	85	395	2100	340	1930	5310	80	1150
3	1690	80	365	2020	200	1090	5280	48	684
4	1710	75	346	1950	125	658	5280	62	884
5	1780	120	577	1930	112	584	5280	78	1110
6	2070	610	3410	1970	92	489	5260	40	568
7	2070	610	3410	2070	95	531	5280	45	642
8	1900	300	1540	2020	72	393	5280	55	784
9	1950	175	921	2140	105	607	5310	40	573
10	2050	275	1520	2160	225	1310	5020	47	637
11	2000	400	2160	2290	100	618	4260	33	380
12	1930	240	1250	2440	165	1090	3470	25	234
13	1950	175	921	2380	340	2180	2750	16	119
14	1900	110	564	2210	185	1100	2600	18	126
15	1930	160	834	2180	90	530	2580	18	125
16	1950	380	2000	2160	68	397	3230	38	331
17	1800	390	1900	2230	75	452	5000	75	1010
18	2030	325	1780	2250	205	1250	5760	67	1040
19	2310	180	1120	2250	150	911	5860	65	1030
20	2980	550	4430	3030	378	3090	5910	55	878
21	3560	375	3600	3420	308	2840	6040	53	864
22	3120	320	2700	3490	180	1700	6310	55	937
23	2620	350	2480	3400	130	1190	6740	77	1400
24	3890	1440	16900	3400	80	734	7120	90	1730
25	6060	2770	45300	3420	75	693	7200	82	1590
26	3450	1200	11200	3360	75	680	7150	67	1290
27	2730	575	4240	3340	115	1040	6960	52	977
28	2360	360	2290	4240	115	1320	6690	63	1140
29	2180	225	1320	5620	265	4020	6510	66	1160
30	2100	150	850	5640	205	3120	6290	56	951
31	---	---	---	5500	130	1930	---	---	---
TOTAL	71510	---	120787	88730	---	40907	161060	---	25924
		JULY			AUGUST			SEPTEMBER	
1	6010	40	649	1900	9	46	1650	8	36
2	5760	37	575	1830	28	138	1640	6	27
3	5620	33	501	1750	36	170	1390	7	26
4	5760	35	544	1710	12	55	1240	8	27
5	6140	28	464	1620	5	22	1240	6	20
6	6390	35	604	1590	6	26	1250	3	10
7	6210	36	604	1560	8	34	1240	6	20
8	5840	28	442	1560	9	38	1240	19	64
9	5350	23	332	1590	20	86	1250	14	47
10	5020	21	285	1590	23	99	1290	8	28
11	4650	20	251	1560	8	34	1330	142	510
12	4240	14	160	1560	6	25	1330	7	25
13	3920	12	127	1560	7	29	1350	4	15
14	3670	12	119	1560	7	29	1350	15	55
15	3450	9	84	1580	14	60	1330	12	43
16	3290	7	62	1630	13	57	1330	14	50
17	3140	8	68	1660	14	63	1290	13	45
18	3010	8	65	1660	20	90	1260	11	37
19	2870	6	46	1620	14	61	1260	11	37
20	2790	8	60	1630	9	40	1120	7	21
21	2680	6	43	1570	5	21	920	5	12
22	2600	6	42	1580	8	34	680	5	9.2
23	2600	11	77	1580	8	34	590	12	19
24	2560	14	97	1600	9	39	530	8	11
25	2500	7	47	1630	11	48	524	5	7.1
26	2420	6	39	1650	12	53	518	4	5.6
27	2380	6	39	1630	9	40	524	5	7.1
28	2270	5	31	1630	7	31	524	5	7.1
29	2230	5	30	1600	7	30	556	10	15
30	2100	4	23	1620	9	39	790	10	21
31	2000	10	54	1630	8	35	---	---	---
TOTAL	119470	---	6564	50440	---	1606	32536	---	1257.1
YEAR	672784		219154.1						

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES

DATE	OCT 26,79	MAY 15,80	JUN 13,80	JUL 10,80	AUG 11,80	SEP 5,80
TIME	0845	1045	1500	1200	1200	1045
TOTAL CELLS/ML	2600	710	180	1100	160	19000
DIVERSITY: DIVISION	1.4	1.2	0.0	1.2	0.8	0.1
.CLASS	1.4	1.2	0.0	1.2	0.8	0.1
..ORDER	1.5	1.6	0.6	1.5	1.6	0.1
...FAMILY	2.3	2.9	1.9	1.5	1.6	0.4
....GENUS	2.4	2.9	1.9	1.5	1.6	0.4

ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)												
.CHLOROPHYCEAE												
..CHLOROCOCCALES												
...CHARACIACEAE												
....SCHROEDERIA	--	-	--	-	--	-	26	2	--	-	--	-
...OOCYSTACEAE												
....ANKISTRODESMUS	*	0	--	-	--	-	--	-	--	-	--	-
....CHODATELLA	--	-	26	4	--	-	--	-	13	8	--	-
...SCENEDESMACEAE												
....SCENEDESMUS	210	8	--	-	--	-	--	-	--	-	--	-
..VOLVOCALES												
...CHLAMYDOMONADACEAE												
....CHLAMYDOMONAS	--	-	26	4	--	-	13	1	--	-	*	0
..ZYGNEMATALES												
...DESMIDIACEAE												
....COSMARIUM	*	0	--	-	--	-	--	-	--	-	--	-
CHRYSOPHYTA												
.BACILLARIOPHYCEAE												
..CENTRALES												
...COSCINODISCACEAE												
....CYCLOTELLA	26	1	52	7	26	14	580#	51	78#	50	*	0
..PENNALES												
...ACHNANTHACEAE												
....ACHNANTHES	--	-	26	4	--	-	--	-	--	-	--	-
....COCCONEIS	--	-	--	-	--	-	39	3	52#	33	*	0
...CYMBELLACEAE												
....CYMBELLA	--	-	26	4	--	-	--	-	--	-	--	-
....EPITHEMIA	39	1	--	-	--	-	--	-	--	-	*	0
...DIATOMACEAE												
....DIATOMA	310	12	52	7	65#	36	--	-	--	-	--	-
...FRAGILARIACEAE												
....FRAGILARIA	400#	15	78	11	--	-	--	-	--	-	--	-
....SYNEDRA	26	1	--	-	--	-	--	-	--	-	--	-
...GOMPHONEMATACEAE												
....GOMPHONEMA	--	-	--	-	--	-	--	-	--	-	*	0
...NAVICULACEAE												
....NAVICULA	120	4	65	9	26	14	--	-	--	-	--	-
...NITZSCHIACEAE												
....NITZSCHIA	150	6	180#	25	65#	36	13	1	--	-	*	0
CRYPTOPHYTA (CRYPTOMONADS)												
.CRYPTOPHYCEAE												
..CRYPTOMONADALES												
...CRYPTOCHRYSIDACEAE												
....CHROOMONAS	26	1	--	-	--	-	--	-	13	8	*	0
CYANOPHYTA (BLUE-GREEN ALGAE)												
.CYANOPHYCEAE												
..HORMOGONALES												
...NOSTOCACEAE												
....ANABAENOPSIS	--	-	--	-	--	-	--	-	--	-	150	1
....APHANIZOMENON	--	-	--	-	--	-	--	-	--	-	18000#	93
...OSCILLATORIACEAE												
....OSCILLATORIA	1300#	49	180#	25	--	-	460#	40	--	-	900	5
EUGLENOPHYTA (EUGLENOIDS)												
.EUGLENOPHYCEAE												
..EUGLENALES												
...EUGLENACEAE												
....EUGLENA	--	-	--	-	--	-	13	1	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09217000 GREEN RIVER NEAR GREEN RIVER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES

DATE	MARCH 11, 80
TIME	0730
TOTAL CELLS/ML	310
DIVERSITY: DIVISION	
.CLASS	
..ORDER	0.8
...FAMILY	2.2
....GENERA	2.4

ORGANISM	CELLS /ML	PER- CENT
CHRYSOPHYTA		
.BACILLARIOPHYCEAE (DIATOMS)		
..CENTRALES (CENTRIC)		
...COSCINODISCACEAE		
# ....CYCLOTELLA	52	17
....MELOSIRA	26	8
..PENNALES (PENNATE)		
...DIATOMACEAE		
# ....DIATOMA	78	25
...FRAGILARIACEAE		
# ....FRAGILARIA	78	25
...NAVICULACEAE		
....NAVICULA	13	4
...NITZSCHIACEAE		
# ....NITZSCHIA	65	21

NOTE: # - DOMINANT ORGANISM; GREATER OR EQUAL TO 15%

09217010 GREEN RIVER BELOW GREEN RIVER, WY

LOCATION.--Lat 41°29'46", long 109°26'17", in SW¼SE¼NW¼ sec.36, T.18 N., R.107 W., Sweetwater County, Hydrologic Unit 14040106, at bridge on county road, 1.7 mi (2.7 km) downstream from Bitter Creek, 2.7 mi (4.3 km) southeast of town of Green River, and 3.3 mi (5.3 km) upstream from Logan Draw.

PERIOD OF RECORD.--Water years 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT 26...	0745	--	751	750	8.0	7.0	20	9.1	2.0	47
NOV 29...	1350	1100	--	620	8.9	.0	10	10.1	1.4	140
DEC 19...	1030	1100	--	610	8.4	.0	5	10.8	.8	210
JAN 22...	0900	640	--	600	8.1	.5	10	11.0	1.5	670
MAR 11...	1000	700	--	700	7.6	.0	35	10.2	2.8	650
APR 15...	0900	--	1860	625	8.6	7.0	280	10.6	3.1	K1800
MAY 15...	1400	--	2190	725	8.1	9.5	270	9.9	1.8	K1000
JUN 13...	1230	--	2640	600	8.6	14.0	6	8.6	1.3	16
JUL 11...	0930	--	4700	400	8.5	17.0	8	8.6	1.5	--
AUG 11...	1415	--	1560	520	8.6	19.0	20	8.2	1.9	K1300
SEP 05...	1230	--	1240	600	8.7	15.0	6	9.2	1.6	K2
10...	1130	--	1290	600	8.7	15.0	--	--	--	--

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT 26...	240	99	56	24	62	1.7	64	2.4	140	220
NOV 29...	230	80	54	23	150	4.3	150	3.5	150	210
DEC 19...	210	57	50	20	48	1.5	50	2.0	150	150
JAN 22...	260	100	63	25	67	1.8	69	2.4	160	220
MAR 11...	270	110	65	26	73	1.9	76	2.6	160	240
APR 15...	200	80	47	20	52	1.6	--	2.4	120	170
MAY 15...	240	93	56	25	76	2.1	--	3.1	150	230
JUN 13...	190	57	47	17	36	1.1	--	2.3	130	100
JUL 11...	150	26	37	13	21	.8	--	1.7	120	65
AUG 11...	170	48	41	16	36	1.2	--	1.6	120	110
SEP 05...	190	57	45	18	43	1.4	--	1.6	130	150
10...	--	--	--	--	--	--	--	--	--	--

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)
OCT									
26...	12	.2	1.8	463	.63	939	.05	.010	.01
NOV									
29...	18	.3	6.8	556	.76	1650	.08	.070	.08
DEC									
19...	8.4	.3	5.1	374	.51	1110	.05	.050	.06
JAN									
22...	18	.3	7.0	499	.68	862	.12	.230	.28
MAR									
11...	16	.3	7.1	526	.72	994	.13	.250	.30
APR									
15...	12	.3	.2	377	.51	1890	.34	.100	.12
MAY									
15...	21	.3	6.5	508	.69	3000	.08	.010	.01
JUN									
13...	9.8	.2	5.9	297	.40	2120	.02	.060	.07
JUL									
11...	2.6	.2	6.8	219	.30	2780	.00	.040	.05
AUG									
11...	7.4	.2	5.6	290	.39	1220	--	--	--
SEP									
05...	6.6	.2	4.3	347	.47	1160	.00	.000	.00
10...	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)
OCT									
26...	.54	.55	.60	2.7	.070	.21	6.5	5.5	.3
NOV									
29...	.67	.74	.82	3.6	.040	.12	--	--	--
DEC									
19...	.24	.29	.34	1.5	.010	.03	--	--	--
JAN									
22...	.77	1.0	1.1	5.0	.100	.31	--	--	--
MAR									
11...	.65	.90	1.0	4.6	.160	.49	--	--	--
APR									
15...	1.1	1.2	1.5	6.8	.590	1.8	--	9.8	2.1
MAY									
15...	1.2	1.2	1.3	5.7	.260	.80	--	--	--
JUN									
13...	.77	.83	.85	3.8	.050	.15	--	10	--
JUL									
11...	.60	.64	.64	2.8	.050	.15	--	--	--
AUG									
11...	--	--	--	--	--	--	--	--	--
SEP									
05...	.65	.65	.65	2.9	.030	.09	--	--	--
10...	--	--	--	--	--	--	--	--	--

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT 26...	0745	670	670	0	2	1	1	0	0	0	60	0
NOV 29...	1350	--	--	--	--	--	--	--	--	--	70	--
DEC 19...	1030	--	--	--	--	--	--	--	--	--	70	--
JAN 22...	0900	--	--	--	--	--	--	--	--	--	90	--
MAR 11...	1000	--	--	--	--	--	--	--	--	--	90	--
APR 15...	0900	12000	12000	180	3	2	1	0	0	<1	90	1
MAY 15...	1400	--	--	--	--	--	--	--	--	--	100	--
JUN 13...	1230	370	320	50	1	0	1	0	--	<1	60	0
JUL 11...	0930	--	--	--	--	--	--	--	--	--	20	--
AUG 11...	1415	--	--	--	--	--	--	--	--	--	50	--
SEP 05...	1230	--	--	--	--	--	--	--	--	--	80	--

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT 26...	0	0	0	0	0	2	0	4	720	--	50	5
NOV 29...	--	--	--	--	--	--	--	--	--	--	20	--
DEC 19...	--	--	--	--	--	--	--	--	--	--	20	--
JAN 22...	--	--	--	--	--	--	--	--	--	--	<10	--
MAR 11...	--	--	--	--	--	--	--	--	--	--	80	--
APR 15...	0	<1	20	20	0	13	3	10	14000	14000	340	21
MAY 15...	--	--	--	--	--	--	--	--	--	--	190	--
JUN 13...	--	<1	0	0	0	6	4	2	940	890	50	1
JUL 11...	--	--	--	--	--	--	--	--	--	--	<10	--
AUG 11...	--	--	--	--	--	--	--	--	--	--	20	--
SEP 05...	--	--	--	--	--	--	--	--	--	--	20	--

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
OCT												
26...	5	0	10	0	10	40	20	20	--	--	29	1
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
15...	18	3	30	20	10	330	310	20	.1	.1	.0	3
MAY												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	1	0	10	0	10	40	30	7	.0	.0	.0	1
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
11...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT												
26...	0	1	4	4	0	0	0	1	--	50	40	10
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
15...	0	<10	19	19	0	1	0	1	1.0	110	60	50
MAY												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
13...	--	<10	1	1	0	0	0	0	2.0	50	20	30
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
11...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
05...	--	--	--	--	--	--	--	--	--	--	--	--

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	PCB TOTAL (UG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT											
22...	1515	779	7.0	.00	1	--	--	.00	.0	.0	0
MAY											
19...	1530	2230	13.0	.00	1	.0	--	.00	.0	.0	1
SEP											
10...	1130	1290	15.0	.00	0	.0	.0	.00	.0	.0	0

DATE	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDO-SULFAN, TOTAL (UG/L)	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT											
22...	.00	.2	.00	.1	.00	.4	.00	.00	.0	.00	.0
MAY											
19...	.00	.1	.00	<.1	.00	.2	.00	.00	.0	.00	.0
SEP											
10...	.00	.1	.00	.1	.00	.0	.00	.00	.0	.00	.0

DATE	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)
OCT										
22...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
MAY										
19...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
SEP										
10...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00

DATE	METH-OXY-CHLOR, TOTAL (UG/L)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	PER-THANE IN BOTTOM MATERIL (UG/KG)	TOX-APHENE, TOTAL (UG/L)
OCT										
22...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0
MAY										
19...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0
SEP										
10...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0

09217010 GREEN RIVER BELOW GREEN RIVER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)	2,4-DP IN BOTTOM MATERIL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT 22...	0	.00	.00	0	.00	.0	.00	0	.00	.0
MAY 19...	0	.00	--	<0	--	.0	--	0	--	.0
SEP 10...	0	.00	.00	0	.00	.0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA-TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA-TERIAL (UG/KG)
OCT 22...	.00	.0	.00	.0
MAY 19...	--	.0	--	.0
SEP 10...	.00	.0	.00	.0

09217900 BLACKS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 40°57'53", long 110°34'38", in NW¼SW¼ sec.27, T.3 N., R.12 E., Summit County, UT, Hydrologic Unit 14140107, on left bank 1 mi (2 km) downstream from East Fork, 2.5 mi (4.0 km) south of Utah-Wyoming State line, and 17 mi (27 km) south of Robertson.

DRAINAGE AREA.--130 mi^2 (337 km^2), approximately.

PERIOD OF RECORD.--October 1937 to July 1939 (published as "at Blacks Fork Ranger Station"), July 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 8,804.8 ft (2,683.70 m), National Geodetic Vertical Datum of 1929, (levels by Water and Power Resources Service). Datums published from October 1968 to September 1978 are incorrect. October 1937 to July 1939, water-stage recorder at site 85 ft (26 m) upstream at different datum.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--15 years (water years 1938, 1967-80), 155 ft^3/s (4.390 m^3/s), 112,300 acre-ft/yr (138 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,160 ft^3/s (61.2 m^3/s) June 6, 1968, July 11, 1975; maximum gage height, 4.91 ft (1.500 m) June 6, 1968; minimum daily discharge, 5.5 ft^3/s (0.16 m^3/s) Jan. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 12	0100	*1,440	40.8	3.24	0.988
June 19	2400	1,160	32.9	2.92	.890

Minimum daily discharge, 15 ft^3/s (0.42 m^3/s) Apr. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	37	23	20	21	21	19	155	456	727	124	57
2	34	36	22	20	22	21	18	161	461	707	119	49
3	33	35	22	20	22	20	17	170	499	637	111	45
4	32	34	22	20	21	19	16	203	625	578	106	43
5	32	33	23	20	21	19	17	250	760	504	101	42
6	32	34	23	18	20	19	16	273	774	466	97	42
7	31	37	22	18	20	18	15	322	668	461	93	43
8	31	40	22	18	19	18	16	340	794	425	91	47
9	31	42	21	19	19	18	16	353	940	420	86	50
10	31	42	21	19	18	17	16	289	1080	410	82	97
11	30	41	20	19	19	18	17	231	1210	391	78	78
12	30	43	21	19	20	18	18	193	1180	367	76	76
13	30	45	21	20	21	19	19	173	1030	353	74	65
14	30	47	20	21	21	20	21	170	948	314	74	60
15	32	45	20	21	21	19	22	189	830	289	86	55
16	32	44	23	22	21	18	25	183	747	277	78	54
17	33	43	21	22	20	19	27	173	858	269	74	50
18	34	41	20	21	20	19	29	180	955	253	67	49
19	41	40	20	21	20	19	34	231	1030	242	64	48
20	51	38	20	21	20	19	40	310	1030	227	67	48
21	42	36	20	20	20	18	46	456	978	217	64	48
22	48	34	20	20	21	17	54	643	917	203	58	46
23	46	35	20	19	22	18	64	844	873	196	60	45
24	42	36	19	19	23	19	73	631	·801	186	60	44
25	42	35	20	18	23	20	95	451	794	167	64	43
26	41	32	20	18	22	20	113	381	774	158	80	42
27	31	28	20	17	21	19	118	405	733	150	65	41
28	31	26	20	17	20	19	118	435	613	141	55	41
29	32	24	20	18	21	20	144	440	643	136	51	41
30	34	22	19	19	---	21	158	386	733	133	51	38
31	36	---	19	20	---	20	---	440	---	128	52	---
TOTAL	1089	1105	644	604	599	589	1401	10061	24734	10132	2408	1527
MEAN	35.1	36.8	20.8	19.5	20.7	19.0	46.7	325	824	327	77.7	50.9
MAX	51	47	23	22	23	21	158	844	1210	727	124	97
MIN	30	22	19	17	18	17	15	155	456	128	51	38
AC-FT	2160	2190	1280	1200	1190	1170	2780	19960	49060	20100	4780	3030

CAL YR 1979 TOTAL 37368 MEAN 102 MAX 1370 MIN 13 AC-FT 74120
WTR YR 1980 TOTAL 54893 MEAN 150 MAX 1210 MIN 15 AC-FT 108900

09218500 BLACKS FORK NEAR MILLBURNE, WY

LOCATION.--Lat 41°01'54", long 110°34'43", in NW¼NE¼SW¼ sec.11, T.12 N., R.117 W., Uinta County, Hydrologic Unit 14040107, on left bank 0.4 mi (0.6 km) downstream from Meeks Cabin Dam, 2.7 mi (4.3 km) north of Utah-Wyoming State line, and 17 mi (27.4 km) southwest of Millburne.

DRAINAGE AREA.--152 mi^2 (394 km^2).

PERIOD OF RECORD.--July 1939 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 929: 1940.

GAGE.--Water-stage recorder. Datum of gage is 8,512.27 ft (2,594.540 m), National Geodetic Vertical Datum of 1929, Water and Power Resources Service datum. Prior to Oct. 1, 1971, at several sites about 2.0 mi (3.2 km) downstream at various datums.

REMARKS.--Records good. Flow completely regulated by Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm^3), since June 1971. No diversion above station.

AVERAGE DISCHARGE.--41 years, 159 ft^3/s (4.503 m^3/s), 115,200 acre-ft/yr (142 hm^3/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft^3/s (71.6 m^3/s) June 7, 1957, from rating curve extended above 1,500 ft^3/s (42.5 m^3/s); maximum gage height, 6.46 ft (1.969 m) in gage well, 6.76 ft (2.060 m) from floodmarks, June 12, 1965, site and datum then in use; minimum daily discharge, 3.7 ft^3/s (0.10 m^3/s) Nov. 12, 1970, due to regulation by Meeks Cabin Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 941 ft^3/s (26.6 m^3/s) May 24, gage height, 4.32 ft (1.317 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Dec. 13 to Jan. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	17	12	10	11	11	12	12	569	792	325	111
2	58	17	12	10	11	11	12	12	702	783	324	109
3	52	17	12	10	11	11	12	12	765	729	324	107
4	51	17	12	10	11	11	12	12	765	660	321	107
5	47	15	12	10	11	11	12	12	729	652	240	106
6	50	12	12	11	11	11	12	12	702	644	185	104
7	50	12	12	11	11	11	12	12	702	510	185	103
8	50	12	12	11	11	11	12	12	711	375	183	103
9	47	12	12	11	11	11	12	12	720	353	180	110
10	43	12	12	11	11	11	12	12	737	353	180	119
11	44	12	12	11	11	11	12	13	792	353	180	120
12	44	12	11	11	11	12	12	13	821	353	219	118
13	44	12	10	11	11	12	12	13	869	350	243	117
14	44	12	10	11	11	12	12	14	869	350	241	115
15	44	12	10	11	11	12	12	14	869	406	241	115
16	34	12	10	11	11	12	12	14	869	415	234	85
17	22	12	10	11	11	12	12	15	869	366	233	74
18	22	12	10	11	11	12	12	15	830	366	233	83
19	22	12	10	11	11	12	12	15	774	366	195	83
20	22	12	10	11	11	12	12	16	774	366	171	83
21	22	12	10	11	11	12	12	174	783	366	171	80
22	22	12	10	11	11	12	12	501	792	350	171	80
23	22	12	10	11	11	12	12	755	792	340	166	82
24	22	12	10	11	11	12	12	920	733	340	166	83
25	19	12	10	11	11	12	12	920	792	369	165	83
26	17	12	10	11	11	12	12	612	792	367	133	83
27	17	12	10	11	11	12	12	388	792	365	115	83
28	17	12	10	11	11	12	12	356	792	364	114	82
29	17	12	10	11	11	12	12	361	792	343	113	80
30	17	12	10	11	---	12	12	481	792	328	111	82
31	17	---	10	11	---	12	---	569	---	326	111	---
TOTAL	1061	383	333	336	319	361	360	6299	23290	13400	6173	2890
MEAN	34.2	12.8	10.7	10.8	11.0	11.6	12.0	203	776	432	199	96.3
MAX	62	17	12	11	11	12	12	920	869	792	325	120
MIN	17	12	10	10	11	11	12	12	569	326	111	74
AC-FT	2100	760	661	666	633	716	714	12490	46200	26580	12240	5730

CAL YR 1979 TOTAL 43197 MEAN 118 MAX 860 MIN 10 AC-FT 85680
WTR YR 1980 TOTAL 55205 MEAN 151 MAX 920 MIN 10 AC-FT 109500

09220000 EAST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°03'15", long 110°23'52", in NE¼NW¼NE¼ sec.5, T.12 N., R.115 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 60 ft (18 m) downstream from bridge, 1.0 mi (1.6 km) upstream from Gilbert Creek, 6.1 mi (9.8 km) downstream from State Line Reservoir, and 9.0 mi (14.5 km) south of Robertson.

DRAINAGE AREA.--53.0 mi^2 (137.3 km^2).

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313. Prior to Oct. 1, 1978, published as East Fork of Smith Fork near Robertson.

REVISED RECORDS.--WSP 979: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 8,470 ft (2,582 m), from topographic map. Prior to July 12, 1957, at datum 3.96 ft (1.207 m) higher.

REMARKS.--Records fair. Flow completely regulated by State Line Reservoir, 6.1 mi (9.8 km) upstream, total capacity, 14,000 acre-ft (17.3 hm^3), dead storage is about 2,000 acre-ft (2.5 hm^3), since May 1979. Results of discharge measurements, in cubic feet per second, made during the period when station was not in operation, is given below:

Oct. 12 . . . 6.8

AVERAGE DISCHARGE.--32 years (water years 1940-71), 47.1 ft^3/s (1.334 m^3/s), 34,120 acre-ft/yr (42.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) June 10, 1965, gage height, 6.75 ft (2.057 m); no flow part of each day Apr. 17-22, 24, 25, 1950; minimum gage height, 3.26 ft (0.994 m), present datum, Apr. 22, 1950.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft^3/s (8.50 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 7	0030	320	9.06	5.31	1.618
June 11	1300	*400	11.3	5.48	1.670

Minimum daily discharge during period of operation, 6.0 ft^3/s (0.170 m^3/s) Sept. 3-6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							8.0	18	91	177	25	6.2
2							8.0	18	89	212	25	6.2
3							8.5	18	87	206	25	6.0
4							8.5	21	85	189	25	6.0
5							8.6	23	84	177	26	6.0
6							9.0	24	152	141	26	6.0
7							9.0	36	186	107	26	6.2
8							9.0	37	106	70	20	6.5
9							7.6	34	279	70	16	12
10							7.3	23	320	66	16	14
11							7.0	21	342	66	16	12
12							6.4	19	274	68	16	12
13							7.0	18	238	71	16	12
14							7.3	16	223	71	16	12
15							7.5	13	209	70	16	12
16							7.8	12	209	70	16	10
17							8.0	12	195	70	16	10
18							9.0	12	183	71	16	9.0
19							10	12	186	65	16	9.0
20							11	16	192	62	16	8.0
21							12	34	209	62	15	8.0
22							12	39	209	46	15	8.0
23							11	95	216	41	14	8.0
24							13	150	206	41	14	8.0
25							13	93	183	41	13	7.0
26							15	87	206	36	8.0	6.6
27							15	100	234	28	6.9	6.6
28							15	150	171	25	6.5	6.6
29							17	165	135	25	6.5	6.6
30							18	115	120	25	6.5	6.6
31							---	91	---	25	6.7	---
TOTAL							305.5	1522	5619	2494	502.1	253.1
MEAN							10.2	49.1	187	80.5	16.2	8.44
MAX							18	165	342	212	26	14
MIN							6.4	12	84	25	6.5	6.0
AC-FT							606	3020	11150	4950	996	502

09220500 WEST FORK OF SMITHS FORK NEAR ROBERTSON, WY

LOCATION.--Lat 41°01'20", long 110°28'43", in SE¼NE¼NW¼ sec.15, T.12 N., R.116 W., Uinta County, Hydrologic Unit 14040107, Wasatch National Forest, on left bank 0.8 mi (1.3 km) downstream from Archie Creek and 11.6 mi (18.7 km) southwest of Robertson.

DRAINAGE AREA.--37.2 mi^2 (96.3 km^2).

PERIOD OF RECORD.--July 1939 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313. Prior to Oct. 1, 1978, published as West Fork of Smith Fork near Robertson.

REVISED RECORDS.--WSP 929: 1940. WSP 1343, 1733: 1943.

GAGE.--Water-stage recorder. Datum of gage is 8,615.0 ft (2,625.85 m), National Geodetic Vertical Datum of 1929. July 13, 1939, to Aug. 16, 1949, at site 75 ft (23 m) upstream at datum 2.00 ft (0.610 m) higher; Aug. 17, 1949, to June 13, 1965, at present site at datum 2.00 ft (0.610 m) higher.

REMARKS.--Records poor. No diversion above station. Results of discharge measurements, in cubic feet per second, made during period when station was not in operation, are given below:

Oct. 12 . . . 0.78

AVERAGE DISCHARGE.--32 years (water years 1940-71), 21.5 ft^3/s (0.609 m^3/s), 15,580 acre-ft/yr (19.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft^3/s (59.5 m^3/s) June 10, 1965, gage height, 5.20 ft (1.585 m), in gage well, 5.60 ft (1.707 m), from floodmarks, present datum; minimum observed, 0.2 ft^3/s (0.006 m^3/s) Aug. 13, 1940, Feb. 25, 1941 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 280 ft^3/s (7.93 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 22	2000	*679	19.2	3.68	1.122
June 4	2030	386	10.9	3.09	.942

Minimum daily discharge, 2.0 ft^3/s (0.057 m^3/s) Aug. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							3.4	34	68	24	3.4	3.0
2							3.5	37	64	24	3.1	2.2
3							3.5	41	142	22	2.6	2.2
4							3.6	59	222	20	2.8	2.2
5							3.6	70	218	16	2.8	2.4
6							3.7	69	162	13	2.8	2.6
7							3.7	89	112	12	2.6	4.1
8							3.7	96	126	14	2.5	6.2
9							3.9	84	142	14	2.5	8.1
10							3.9	69	155	13	2.4	5.7
11							3.7	48	158	11	2.2	5.0
12							3.6	35	128	9.4	2.0	3.6
13							3.7	27	101	9.8	2.0	2.5
14							5.0	24	82	9.1	2.5	2.2
15							8.0	30	67	8.4	3.7	2.2
16							10	37	48	7.3	3.9	2.2
17							9.0	34	52	6.7	3.6	2.6
18							10	37	61	6.5	3.0	2.6
19							11	56	63	5.9	3.1	2.6
20							13	120	54	5.7	3.6	2.5
21							14	219	53	5.7	2.8	2.5
22							15	357	43	4.8	2.6	2.5
23							15	404	36	4.6	2.8	2.5
24							17	164	32	4.8	3.0	2.5
25							20	42	29	4.6	5.2	2.4
26							25	37	27	4.1	3.9	2.4
27							26	55	26	3.7	2.6	2.4
28							29	88	22	3.6	2.2	2.3
29							29	84	22	3.6	2.1	2.3
30							32	63	24	3.6	2.6	2.3
31							---	73	---	3.6	3.4	---
TOTAL							335.5	2682	2539	298.5	90.3	90.8
MEAN							11.2	86.5	84.6	9.63	2.91	3.03
MAX							32	404	222	24	5.2	8.1
MIN							3.4	24	22	3.6	2.0	2.2
AC-FT							665	5320	5040	592	179	180

09221650 SMITHS FORK NEAR LYMAN, WY

LOCATION.--Lat 41°22'31", long 110°12'14", in SW¼SE¼SE¼ sec.12, T.16 N., R.114 W., Uinta County, Hydrologic Unit 14040107, at bridge on U.S. Highway 30S, 1.5 mi (2.4 km) downstream from Cottonwood Creek, 1.6 mi (2.6 km) upstream from bridge on Interstate Highway 80, 2.4 mi (3.9 km) upstream from mouth, and 5.7 mi (9.2 km) northeast of Lyman.

PERIOD OF RECORD.--Water years 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARDNESS (MG/L AS CACO3)
OCT 26...	1115	2.1	2300	8.6	5.0	55	10.4	K5200	180
NOV 30...	1130	2.8	1120	8.0	.0	25	10.8	K20	260
DEC 20...	1030	4.7	820	7.9	.0	30	11.8	K4	230
JAN 24...	1030	E10	650	7.8	.0	30	10.4	K10	210
FEB 29...	1000	E300	590	8.1	.5	420	11.6	K30	95
MAR 21...	1055	31	800	8.2	1.0	1300	11.0	K33	130
APR 22...	0900	292	600	8.3	9.5	750	9.9	40	130
MAY 13...	1430	335	650	7.9	9.5	350	9.3	33	150
JUN 05...	0915	217	510	7.5	13.0	--	7.8	--	150
JUL 10...	0715	91	1200	8.3	17.0	15	7.5	460	240
AUG 08...	0655	5.2	1500	8.2	13.0	9	7.4	420	200
SEP 05...	0755	1.3	2100	8.5	7.0	--	8.8	K18	210

E-Estimate.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM AD-SORPTION RATIO	SODIUM+ POTASSIUM DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
OCT 26...	0	41	20	420	13	420	4.3	260	560
NOV 30...	0	71	20	180	4.9	180	4.0	280	210
DEC 20...	0	65	17	99	2.8	100	4.9	240	120
JAN 24...	2	60	15	71	2.1	74	3.2	210	87
FEB 29...	0	28	6.0	87	3.9	91	3.6	140	82
MAR 21...	0	38	9.2	110	4.2	110	4.6	170	130
APR 22...	0	37	9.0	54	2.1	--	4.4	150	51
MAY 13...	0	42	10	63	2.3	--	3.6	180	64
JUN 05...	0	40	12	49	1.7	--	3.1	160	50
JUL 10...	0	58	24	200	5.6	--	5.0	320	200
AUG 08...	0	46	20	260	8.1	--	2.4	300	340
SEP 05...	0	46	22	390	12	--	4.5	340	550

09221650 SMITHS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)
OCT									
26...	200	1.0	13	1420	1.93	8.05	.05	.180	.55
NOV									
30...	99	.5	16	769	1.05	5.81	.05	.060	.18
DEC									
20...	60	.4	14	525	.71	6.66	.02	.080	.25
JAN									
24...	46	.3	14	425	.58	11.5	.42	.060	.18
FEB									
29...	38	.3	12	342	.47	277	.13	1.300	4.0
MAR									
21...	62	.2	14	471	.64	39.4	.15	5.100	16
APR									
22...	28	.3	22	297	.40	234	.15	5.200	16
MAY									
13...	36	.3	16	345	.47	312	.47	1.900	5.5
JUN									
05...	29	.2	17	297	.40	174	.02	.110	.34
JUL									
10...	90	.8	21	791	1.08	194	.01	.160	.49
AUG									
08...	81	1.1	7.1	938	1.28	13.2	.01	.040	.12
SEP									
05...	140	1.3	4.4	1360	1.85	4.77	.00	.020	.06

DATE	TIME	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT									
26...	1115	--	--	--	--	--	--	--	--
JUN									
05...	0915	--	--	--	--	--	--	--	--
JUL									
10...	0715	0	.0	.0	0	.0	.0	.0	.0
SEP									
05...	0755	--	--	--	--	--	--	--	--

DATE	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PERTHANE IN BOTTOM MATERIL (UG/KG)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT									
26...	--	--	--	--	--	--	--	--	--
JUN									
05...	--	--	--	--	--	--	--	--	--
JUL									
10...	.0	.0	.0	.0	.0	.0	.0	.00	0
SEP									
05...	--	--	--	--	--	--	--	--	--

09221650 SMITHS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)	2,4-DP IN BOTTOM MATERIL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT								
26...	.00	0	.00	.0	.00	0	.00	.0
JUN								
05...	--	0	.00	.0	.00	0	.00	.0
JUL								
10...	.24	--	.00	--	.00	--	.00	--
SEP								
05...	.00	0	.01	.0	.04	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MATERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MATERIAL (UG/KG)
OCT				
26...	.01	.0	.00	.0
JUN				
05...	.00	.0	.00	.0
JUL				
08...	.00	--	.01	--
SEP				
05...	.01	.0	.00	.0

09222000 BLACKS FORK NEAR LYMAN, WY

LOCATION.--Lat 41°27'08", long 110°10'20", in SW¼NW¼SW¼ sec.15, T.17 N., R.113 W., Uinta County, Hydrologic Unit 14040107, on left bank 200 ft (61 m) downstream from bridge on old U.S. Highway 30S, 8.5 mi (13.7 km) downstream from Smiths Fork, and 11 mi (18 km) northeast of Lyman.

DRAINAGE AREA.--821 mi² (2,126 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to December 1957, May 1962 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1733: 1947, 1948(M), 1951(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,380 ft (1,945 m), from topographic map. Oct. 21, 1937, to Dec. 31, 1957, at site 300 ft (91 m) downstream, at datum 1.51 ft (0.460 m) higher.

REMARKS.--Records fair except those for winter period, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm³), since June 1971, from State Line Reservoir, capacity, 14,000 acre-ft (17.3 hm³), since April 1980, several smaller reservoirs, and diversions for irrigation of about 62,200 acres (252 km²) above station.

AVERAGE DISCHARGE.--38 years, 145 ft³/s (4.106 m³/s), 105,100 acre-ft/yr (130 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,960 ft³/s (225 m³/s) June 11, 1965, gage height, 12.68 ft (3.865 m); no flow Aug. 8, 15-22, 1940, Dec. 26-28, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,720 ft³/s (48.7 m³/s) July 2, gage height, 8.21 ft (2.502 m); minimum daily 3.2 ft³/s (0.091 m³/s) Oct. 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	9.0	9.0	14	16	230	30	473	364	256	36	19
2	3.3	10	10	15	19	210	33	367	370	645	35	19
3	3.3	11	11	16	21	200	35	276	377	836	34	15
4	3.2	12	12	17	23	210	48	262	402	409	27	14
5	3.2	14	13	18	26	210	95	360	391	357	26	14
6	3.4	13	15	16	25	190	135	446	377	282	27	14
7	4.3	15	17	15	25	180	101	465	360	210	23	14
8	3.5	14	19	14	24	170	64	481	364	217	17	14
9	3.4	15	19	13	22	170	76	516	321	210	17	14
10	3.7	13	18	14	21	190	149	496	353	167	15	20
11	4.1	13	16	16	19	220	91	579	431	113	14	36
12	4.1	14	15	19	18	250	81	603	424	69	13	40
13	4.1	15	14	30	18	300	62	492	337	59	14	32
14	4.3	16	13	50	19	327	66	327	324	52	15	24
15	4.3	16	13	45	21	350	156	318	293	41	16	20
16	4.3	17	14	40	24	202	214	270	327	34	18	19
17	4.6	17	15	36	30	95	207	291	343	36	14	19
18	4.9	16	16	32	50	93	240	299	330	33	14	16
19	5.6	15	17	27	80	85	305	256	312	33	15	13
20	17	15	17	23	150	81	347	251	245	27	16	13
21	13	14	18	20	220	101	384	360	237	25	15	14
22	9.1	13	17	18	210	81	370	516	230	25	16	15
23	8.2	13	16	16	200	56	262	808	219	33	14	16
24	7.9	14	14	14	190	54	190	1030	197	48	13	16
25	8.5	13	13	15	180	48	183	1010	185	52	13	16
26	8.2	12	12	14	170	39	167	781	164	41	21	18
27	8.2	11	11	12	190	54	149	512	149	38	22	16
28	8.2	10	10	11	220	44	147	318	142	41	20	13
29	9.1	9.5	11	10	250	48	174	364	183	42	16	11
30	10	8.5	12	11	---	51	230	395	217	42	16	11
31	9.9	---	13	14	---	25	---	343	---	35	17	---
TOTAL	192.3	398.0	440.0	625	2481	4564	4791	14265	8968	4508	589	535
MEAN	6.20	13.3	14.2	20.2	85.6	147	160	460	299	145	19.0	17.8
MAX	17	17	19	50	250	350	384	1030	431	836	36	40
MIN	3.2	8.5	9.0	10	16	25	30	251	142	25	13	11
AC-FT	381	789	873	1240	4920	9050	9500	28290	17790	8940	1170	1060

CAL YR 1979 TOTAL 14812.7 MEAN 40.6 MAX 217 MIN 3.2 AC-FT 29380
WTR YR 1980 TOTAL 42356.3 MEAN 116 MAX 1030 MIN 3.2 AC-FT 84010

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May 1962 to current year.
WATER TEMPERATURES: May 1962 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 5,260 micromhos Sept. 9, 1979; minimum daily, 351 micromhos Jan. 13.
WATER TEMPERATURES: Maximum, 28.0°C July 20, 1970; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 5,050 micromhos Oct. 6, 7, 8, 9; minimum daily, 351 micromhos Jan. 13.
WATER TEMPERATURES: Maximum, 23.0°C July 29; minimum, 0.0°C on many days during November to April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)
OCT									
04...	1500	--	3.2	6000	--	19.5	5	--	--
26...	1030	--	8.5	4400	8.3	5.0	15	10.2	K9
NOV									
06...	1340	--	15	3400	--	3.0	25	--	--
27...	1340	11	--	2990	--	.0	20	--	--
30...	1040	8.5	--	3300	7.6	.0	7	9.5	K11
DEC									
20...	0850	17	--	2400	7.9	.0	15	11.6	K7
JAN									
03...	1030	16	--	2100	--	.5	20	--	--
24...	0900	14	--	1650	7.6	.0	25	8.9	K6
FEB									
04...	1515	23	--	1800	--	.0	60	--	--
29...	0900	250	--	1040	8.0	.5	320	11.0	K30
MAR									
14...	1600	327	--	790	8.9	.0	1800	10.8	K0
APR									
23...	1045	--	270	700	8.5	9.5	3200	9.2	110
MAY									
09...	1100	--	504	3000	8.1	16.0	--	--	--
13...	1200	--	516	1100	8.3	7.0	1800	9.8	90
JUN									
05...	1400	--	350	1100	6.8	13.0	280	7.8	--
JUL									
10...	1100	--	162	1800	8.3	19.0	20	8.0	280
AUG									
07...	1620	--	22	2800	8.0	23.0	6	7.1	K47
SEP									
05...	1100	--	14	3000	8.2	16.0	--	8.2	K100

K-Results based on colony count outside the acceptable range (non-ideal colony count).

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT									
04...	--	--	--	--	--	--	--	--	--
26...	1200	990	300	110	550	6.9	6.5	210	2000
NOV									
06...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
30...	1100	790	290	96	390	5.1	5.7	330	1400
DEC									
20...	800	660	200	72	290	4.5	4.4	240	950
JAN									
03...	--	--	--	--	--	--	--	--	--
24...	600	360	160	49	180	3.2	5.0	240	660
FEB									
04...	--	--	--	--	--	--	--	--	--
29...	260	110	69	22	120	3.2	4.4	150	330
MAR									
14...	200	87	54	15	100	3.1	2.1	110	250
APR									
23...	220	56	57	18	63	1.9	--	160	160
MAY									
09...	--	--	--	--	--	--	--	--	--
13...	220	65	62	17	120	3.5	3.6	160	250
JUN									
05...	360	150	93	30	92	2.1	3.4	210	300
JUL									
10...	580	300	150	49	220	4.0	4.6	280	690
AUG									
07...	790	580	190	76	350	5.4	3.6	210	1200
SEP									
05...	1200	--	280	110	460	5.9	5.0	--	1300

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)
OCT									
04...	--	--	--	--	--	--	--	--	--
26...	130	1.2	9.5	3230	4.39	74.1	.02	740	10
NOV									
06...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
30...	120	.9	13	2520	3.43	57.8	.18	550	130
DEC									
20...	87	.7	12	1700	2.31	78.0	.06	370	60
JAN									
03...	--	--	--	--	--	--	--	--	--
24...	61	.5	15	1280	1.74	48.4	.67	250	20
FEB									
04...	--	--	--	--	--	--	--	--	--
29...	37	.4	12	687	.93	464	.35	180	70
MAR									
14...	31	.3	8.2	530	.72	468	.33	1900	80
APR									
23...	23	.2	16	434	.59	316	.10	100	170
MAY									
09...	--	--	--	--	--	--	--	--	--
13...	56	.4	14	623	.85	868	.63	810	160
JUN									
05...	29	.3	17	691	.94	653	.01	210	160
JUL									
10...	27	.8	16	1330	1.81	582	.01	350	40
AUG									
07...	75	1.1	7.0	2030	2.76	123	.01	590	70
SEP									
05...	90	1.2	8.7	--	--	--	.00	600	60

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT									
26...	1030	--	--	--	--	--	--	--	--
MAY									
09...	1100	--	--	--	--	--	--	--	--
JUN									
05...	1400	--	--	--	--	--	--	--	--
JUL									
10...	1100	0	.0	.0	0	.0	.0	.0	.0
SEP									
05...	1100	--	--	--	--	--	--	--	--

DATE	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PERTHANE IN BOTTOM MATERIL (UG/KG)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT									
26...	--	--	--	--	--	--	--	--	--
MAY									
09...	--	--	--	--	--	--	--	--	--
JUN									
05...	--	--	--	--	--	--	--	--	--
JUL									
10...	.0	.0	.0	.0	.0	.0	.0	.00	0
SEP									
05...	--	--	--	--	--	--	--	--	--

DATE	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)	2,4-DP IN BOTTOM MATERIL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT								
26...	.00	0	.00	.0	.00	0	.00	.0
MAY								
09...	.00	--	.00	--	.01	--	.00	--
JUN								
05...	--	0	.00	.0	.00	0	.00	.0
JUL								
10...	.14	0	.00	.0	.00	0	.00	.0
SEP								
05...	--	0	--	.0	--	0	--	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MATERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MATERIAL (UG/KG)
OCT				
26...	.00	.0	.00	.0
MAY				
09...	.00	--	.00	--
JUN				
05...	.00	.0	.01	.0
JUL				
10...	.01	.0	.00	.0
SEP				
05...	--	.0	--	.0

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
OCT											
04...	1500	19.5	--	3.2	7	.06	--	--	--	--	--
NOV											
06...	1340	3.0	--	15	68	2.8	--	--	--	--	--
27...	1340	.0	11	--	67	2.0	--	--	--	--	--
JAN											
03...	1030	.5	16	--	90	3.9	--	--	--	--	--
FEB											
04...	1515	.0	23	--	98	6.1	--	--	--	--	--
MAR											
14...	1600	.0	327	--	7830	6910	45	67	94	98	100
APR											
23...	1045	9.5	--	270	3880	2830	41	57	76	92	99
MAY											
13...	1200	7.0	--	516	5610	7820	44	59	77	89	95
JUN											
05...	1400	13.0	--	350	662	626	--	--	--	--	--
JUL											
10...	1100	19.0	--	162	282	123	--	--	--	--	--
AUG											
07...	1620	23.0	--	22	35	2.1	--	--	--	--	--
SEP											
05...	1100	16.0	--	14	8	.30	--	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
OCT										
04...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
JAN										
03...	--	--	--	--	--	--	--	--	--	--
FEB										
04...	--	--	--	--	--	--	--	--	--	--
MAR										
14...	--	--	--	--	--	--	--	--	--	--
APR										
23...	100	--	--	--	--	--	--	--	--	--
MAY										
13...	100	--	--	--	--	--	--	--	--	--
JUN										
05...	--	--	10	9	20	67	94	96	98	100
JUL										
10...	--	80	--	--	--	--	--	--	--	--
AUG										
07...	--	--	--	--	--	--	--	--	--	--
SEP										
05...	--	--	20	1	5	37	89	98	99	100

09222000 BLACKS FORK NEAR LYMAN, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4810	3770	3130	2160	1680	1240	1640	908	1060	1840	2530	3100
2	4870	3760	3380	2120	1700	1300	1710	761	978	1860	2320	3290
3	4960	3790	3360	2110	1650	1460	1700	737	1080	1390	2420	3260
4	4990	3830	3360	2130	1650	1320	1560	790	901	1520	2590	3220
5	4990	3230	3360	2020	1660	1440	1090	632	905	1580	2570	3310
6	5050	3420	2650	2030	1590	1290	964	612	922	1590	2510	3300
7	5050	3180	2670	2130	1570	1590	943	567	964	1690	2490	3400
8	5050	3250	2680	2070	1570	1650	1200	601	960	1730	2590	3400
9	5050	2890	2370	2070	1580	1720	1140	558	1040	1710	2650	3400
10	4810	3590	2340	1790	1640	1920	845	544	1020	1770	2760	3190
11	4620	3180	2350	1770	1650	1240	1040	543	851	1850	2770	3290
12	4870	3450	2450	1790	1630	997	1180	769	795	2020	3120	2800
13	4810	3610	2780	351	1650	1450	1170	838	926	2170	3100	2710
14	4420	3480	2800	958	1530	1430	1210	924	1120	2150	3330	3130
15	4170	3780	2670	946	1520	1060	782	930	1230	2150	2840	3030
16	4520	3530	2640	1090	1510	1030	764	1020	1340	2260	3040	3090
17	4520	3280	2530	1200	1460	1300	715	876	1350	2260	3110	3020
18	4460	2970	2380	1480	1380	1300	687	882	1400	2230	2990	2770
19	4280	2990	2210	1530	1410	1390	761	890	1520	2180	3220	2910
20	2900	2960	2270	1580	1330	1380	690	836	1520	2260	3150	3030
21	2290	3210	2260	1580	897	1320	664	706	1590	2320	2950	3120
22	3540	3240	2180	1790	1080	1280	632	567	1590	2290	2990	3240
23	3750	3000	2090	1700	1090	1560	635	615	1580	2260	2850	3220
24	3820	3180	2040	1700	1380	1570	702	535	1650	2050	2930	3220
25	3850	2780	2020	1710	1360	1510	845	521	1670	2030	3160	3220
26	3770	2820	2120	1810	1380	1840	854	551	1770	2270	3000	3140
27	3760	2700	2140	1700	1280	1560	816	624	1770	2290	3060	3060
28	3690	2700	2050	1730	882	1450	752	770	1780	2130	3180	3050
29	3640	2900	2110	1750	1020	1500	779	685	1830	2170	2970	3030
30	3700	3080	2180	1760	---	1380	729	719	1800	2290	3070	3330
31	3820	---	2180	1720	---	1650	---	854	---	2530	3180	---
MEAN	4280	3250	2510	1690	1440	1420	973	721	1300	2030	2890	3140

WTR YR 1980 MEAN 2140 MAX 5050 MIN 351

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	.0	.0	.0	.0	.0	.0	7.0	11.0	20.0	21.0	8.0
2	7.0	.0	.0	.0	.0	.0	.0	10.0	10.0	18.0	16.0	9.0
3	6.0	.0	.0	.0	.0	.0	.0	12.0	12.0	17.0	13.0	11.0
4	5.0	.0	.0	.0	.0	1.0	1.0	13.0	12.0	17.0	9.0	11.0
5	7.0	1.0	.0	.0	.0	.0	3.0	13.0	13.0	17.0	11.0	10.0
6	10.0	1.0	.0	.0	.0	.0	2.0	13.0	13.0	15.0	13.0	11.0
7	8.0	.0	.0	.0	.0	.0	.0	12.0	10.0	16.0	13.0	14.0
8	9.0	1.0	.0	.0	.0	.0	.0	10.0	12.0	14.0	16.0	12.0
9	6.0	1.0	.0	.0	.0	.0	2.0	10.0	14.0	16.0	16.0	11.0
10	6.0	.0	.0	.0	.0	.0	4.0	7.0	16.0	17.0	13.0	13.0
11	6.0	.0	.0	.0	.0	.0	2.0	5.0	16.0	16.0	11.0	12.0
12	5.0	.0	.0	.0	.0	.0	6.0	4.0	15.0	17.0	15.0	10.0
13	4.0	.0	.0	1.0	.0	.0	1.0	5.0	13.0	16.0	13.0	10.0
14	7.0	.0	.0	1.0	.0	1.0	3.0	7.0	14.0	16.0	14.0	10.0
15	4.0	.0	.0	1.0	.0	1.0	4.0	8.0	10.0	16.0	14.0	9.0
16	5.0	.0	.0	1.0	.0	.0	4.0	9.0	10.0	16.0	11.0	9.0
17	4.0	.0	.0	.0	.0	.0	5.0	5.0	14.0	16.0	10.0	8.0
18	3.0	.0	.0	.0	.0	.0	7.0	5.0	17.0	14.0	10.0	8.0
19	6.0	.0	.0	.0	.0	.0	8.0	7.0	18.0	15.0	10.0	13.0
20	3.0	.0	.0	.0	.0	.0	10.0	9.0	19.0	13.0	6.0	12.0
21	2.0	.0	.0	.0	.0	.0	9.0	10.0	15.0	14.0	8.0	9.0
22	1.0	.0	.0	.0	.0	.0	10.0	13.0	16.0	15.0	10.0	12.0
23	7.0	.0	.0	.0	.0	.0	8.0	11.0	17.0	15.0	18.0	12.0
24	8.0	.0	.0	.0	.0	.0	6.0	11.0	14.0	16.0	18.0	5.0
25	9.0	.0	.0	.0	.0	.0	4.0	9.0	16.0	16.0	13.0	11.0
26	10.0	.0	.0	.0	.0	.0	6.0	7.0	16.0	20.0	13.0	12.0
27	1.0	.0	.0	.0	.0	2.0	6.0	12.0	15.0	20.0	15.0	8.0
28	5.0	.0	.0	.0	.0	.0	7.0	13.0	15.0	20.0	10.0	8.0
29	1.0	.0	.0	.0	.0	.0	9.0	10.0	21.0	23.0	12.0	6.0
30	1.0	.0	.0	.0	---	1.0	8.0	10.0	18.0	22.0	13.0	8.0
31	.0	---	.0	.0	---	.0	---	9.0	---	22.0	10.0	---
MEAN	5.5	.0	.0	.0	.0	.0	4.5	9.0	14.5	17.0	12.5	10.0

WTR YR 1980 MEAN 6.0 MAX 23.0 MIN .0

09222200 RYCKMAN CREEK NEAR GLENCOE, WY

LOCATION.--Lat 41°33'38", long 110°39'30", in NW¼SE¼NE¼ sec.8, T.18 N., R.117 W., Uinta County, Hydrologic Unit 14040108, on left bank 0.35 mi (0.56 km) upstream from mouth, 12 mi (19.3 km) southwest of Glencoe, and 17.5 mi (28.2 km) south of Kemmerer.

DRAINAGE AREA.--53.4 mi² (138.3 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 6,740 ft (2,054 m), from topographic map.

REMARKS.--Records fair. No diversion above station.

EXTREMES FOR PERIOD JUNE TO SEPTEMBER: Maximum discharge, 29 ft³/s (0.82 m³/s) Aug. 16, gage height, 3.15 ft (0.960 m); minimum daily, 0.84 ft³/s (0.024 m³/s) June 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									1.0	1.7	1.3	1.1
2									1.1	3.0	1.3	1.1
3									1.2	2.8	1.2	.99
4									1.1	2.4	1.2	.99
5									1.1	2.1	1.2	1.1
6									1.0	1.8	1.1	1.2
7									1.0	1.7	1.1	1.4
8									.96	1.9	.99	2.1
9									.94	2.3	1.1	1.6
10									.90	1.9	1.2	2.5
11									.87	1.7	1.2	3.0
12									.91	1.5	1.2	3.8
13									.84	2.0	1.2	2.6
14									1.1	2.5	1.3	2.2
15									1.1	1.8	2.0	1.5
16									1.2	1.6	3.1	1.2
17									1.4	1.9	1.6	1.2
18									1.5	1.7	1.2	1.2
19									1.6	1.8	1.1	1.2
20									1.6	1.7	1.1	1.2
21									1.9	1.6	1.2	1.2
22									1.8	1.6	1.2	1.3
23									1.6	1.9	1.2	1.5
24									1.5	1.6	1.1	1.4
25									1.6	1.9	1.3	1.3
26									1.4	1.6	3.9	1.3
27									1.3	1.5	2.1	1.3
28									1.4	1.2	1.4	1.2
29									1.4	1.3	1.2	1.2
30									1.6	1.2	1.1	1.2
31									---	1.5	1.1	---
TOTAL									37.92	56.7	43.49	46.08
MEAN									1.26	1.83	1.40	1.54
MAX									1.9	3.0	3.9	3.8
MIN									.84	1.2	.99	.99
AC-FT									75	112	86	91

09222200 RYCKMAN CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to September 1980.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
JUL 09...	0900	2.3	700	8.5	12.0	1100	--	260	1.6
AUG 06...	1845	.92	630	8.7	20.0	6	7.5	16	.04
SEP 04...	0850	.99	700	8.5	9.0	--	8.4	109	.29

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM
SEP 04...	0850	9.0	.99	15	13	19	23

DATE	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
SEP 04...	28	30	35	44	55	71	100

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY

LOCATION.--Lat 41°34'54", long 110°33'42", in NW¼SE¼SE¼ sec.31, T.19 N., R.116 W., Lincoln County, Hydrologic Unit 14040108, on left bank 0.8 mi (1.3 km) downstream from North Fork, 9.3 mi (15.0 km) south of Glencoe, and 14.6 mi (23.5 km) south of Kemmerer.

DRAINAGE AREA.--416 mi² (1,077 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1976 to September 1980 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 6,540 ft (1,993 m), from topographic map.

REMARKS.--Records fair except those for winter period, which are poor. No diversion above station. Natural flow of stream affected by return flow from power development which diverts water into the basin from Hams Fork.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 520 ft³/s (14.7 m³/s) Apr. 21, 1980, gage height, 7.89 ft (2.405 m); minimum daily, 0.72 ft³/s (0.020 m³/s) Aug. 7, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 520 ft³/s (14.7 m³/s) Apr. 21, gage height, 7.89 ft (2.405 m); minimum daily, 1.8 ft³/s (0.051 m³/s) Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	11	5.2	7.6	6.6	59	33	130	89	30	16	9.5
2	2.3	9.8	5.0	7.4	7.0	46	24	134	95	42	16	9.0
3	2.2	9.8	5.4	7.4	7.5	31	22	114	110	42	16	8.7
4	1.8	9.3	5.8	7.6	8.2	22	35	97	95	40	16	8.5
5	2.0	9.2	6.2	7.8	9.0	19	60	86	84	34	14	8.1
6	2.6	7.5	7.0	8.5	10	17	80	80	76	30	15	7.9
7	3.1	7.0	8.0	8.8	11	19	100	99	71	28	14	7.4
8	3.1	7.8	9.0	9.2	12	19	116	104	64	29	14	8.7
9	3.6	9.2	9.5	9.4	17	16	229	81	62	30	14	9.4
10	3.7	7.5	10	10	17	15	410	84	60	27	14	13
11	3.3	7.7	10	9.0	18	16	266	85	57	24	13	17
12	2.8	7.7	9.0	8.3	20	20	215	93	53	23	15	21
13	2.6	6.7	8.0	26	22	28	185	95	49	21	17	19
14	2.5	6.9	7.4	58	23	31	270	82	48	20	16	16
15	3.7	6.7	7.2	19	22	97	410	82	46	18	19	15
16	4.0	6.6	7.2	52	25	140	380	117	46	16	23	13
17	4.3	6.4	7.2	68	26	107	390	100	46	16	30	11
18	4.4	6.3	7.2	21	27	71	412	118	46	16	20	10
19	4.8	6.2	7.4	14	28	55	409	92	46	16	15	10
20	10	6.0	7.2	10	59	48	452	81	43	15	13	10
21	17	5.8	7.1	9.0	75	118	473	72	43	15	12	16
22	14	5.8	7.1	8.0	68	154	426	67	42	15	11	15
23	12	5.8	7.2	7.0	57	189	367	68	40	15	11	10
24	11	6.0	7.6	7.0	53	171	266	75	38	14	12	9.8
25	10	6.0	7.9	6.5	35	76	150	78	34	18	20	9.6
26	10	6.0	8.7	6.0	26	52	100	78	34	15	70	10
27	11	5.8	9.2	5.5	22	40	110	74	31	13	20	9.6
28	11	5.7	9.2	5.2	20	30	120	69	29	12	14	9.6
29	11	5.6	9.2	5.0	34	29	120	69	30	13	12	9.0
30	11	5.5	8.7	5.4	---	57	120	92	29	14	11	8.5
31	11	---	7.9	5.8	---	44	---	88	---	16	10	---
TOTAL	198.0	213.3	238.7	439.4	765.3	1836	6750	2784	1636	677	533	339.3
MEAN	6.39	7.11	7.70	14.2	26.4	59.2	225	89.8	54.5	21.8	17.2	11.3
MAX	17	11	10	68	75	189	473	134	110	42	70	21
MIN	1.8	5.5	5.0	5.0	6.6	15	22	67	29	12	10	7.4
AC-FT	393	423	473	872	1520	3640	13390	5520	3250	1340	1060	673

CAL YR 1979 TOTAL 2845.94 MEAN 7.80 MAX 52 MIN .72 AC-FT 5640
WTR YR 1980 TOTAL 16410.00 MEAN 44.8 MAX 473 MIN 1.8 AC-FT 32550

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1976 to September 1980 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
04...	1445	--	1.8	3500	--	12.0	3	--	--	--	--
25...	1450	--	11	3300	8.1	12.0	--	10.8	3.2	1200	950
NOV											
05...	1100	--	8.5	3200	--	8.5	15	--	--	--	--
29...	1500	5.6	--	2800	8.0	.0	--	11.6	2.7	1100	800
30...	1400	5.5	--	2900	--	.0	4	--	--	--	--
DEC											
19...	1415	--	7.4	3000	8.0	4.5	--	11.2	2.0	1100	790
JAN											
02...	1400	--	7.4	3500	--	6.5	4	--	--	--	--
23...	1430	7.0	--	1900	7.8	5.5	--	9.6	4.6	700	450
FEB											
08...	1610	--	11	2200	--	6.0	6	--	--	--	--
28...	1430	--	32	1480	--	5.0	80	--	--	--	--
28...	1530	--	23	1500	7.7	5.5	--	10.2	5.0	490	280
MAR											
25...	0925	--	52	1300	7.7	4.0	60	7.6	3.8	520	320
APR											
07...	1315	--	124	1200	--	3.5	2700	--	--	--	--
15...	1220	--	308	640	--	4.0	5400	--	--	--	--
23...	1245	--	343	650	8.7	8.0	500	8.9	3.0	240	110
MAY											
13...	1230	--	93	1200	8.4	9.0	20	9.6	3.0	480	210
JUN											
12...	0900	--	56	1000	8.6	13.5	360	7.9	2.0	430	140
JUL											
09...	1130	--	31	1000	8.3	16.0	240	8.6	2.6	480	180
AUG											
07...	0945	--	15	1100	7.9	15.0	35	7.7	1.8	460	230
SEP											
04...	1030	--	13	1600	8.0	10.0	40	8.1	1.1	660	440
29...	1445	--	9.0	1650	8.5	13.0	80	11.7	1.0	630	400

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
25...	300	110	330	4.1	13	250	1500	60	.5	10	2480
NOV											
05...	--	--	--	--	--	--	--	--	--	--	--
29...	280	100	310	4.0	11	310	1300	55	.5	9.0	2250
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
19...	270	100	320	4.2	1.0	300	1300	58	.5	9.5	2240
JAN											
02...	--	--	--	--	--	--	--	--	--	--	--
23...	180	61	200	3.3	10	250	830	40	.5	9.1	1480
FEB											
08...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	120	46	140	2.8	7.3	210	550	32	.4	7.2	1030
MAR											
25...	130	47	200	3.8	7.6	200	690	41	.4	6.8	1240
APR											
07...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
23...	52	26	43	1.2	6.4	130	170	19	.2	6.2	401
MAY											
13...	96	58	84	1.7	5.5	270	340	39	.3	8.3	794
JUN											
12...	81	55	49	1.0	4.5	290	210	31	.4	8.0	614
JUL											
09...	88	63	63	1.3	4.6	300	250	38	.5	10	698
AUG											
07...	84	60	65	1.3	3.6	230	310	31	.5	3.9	697
SEP											
04...	150	70	110	1.9	7.3	220	600	39	.4	4.5	1110
29...	140	69	120	2.1	6.5	230	610	44	.4	5.4	1140

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
25...	3.37	73.7	2.1	2.600	3.1	.60	3.2	5.3	23	.040	.12
NOV											
05...	--	--	--	--	--	--	--	--	--	--	--
29...	3.06	34.0	2.0	1.000	1.2	.60	1.6	3.6	16	.010	.03
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
19...	3.05	44.8	2.1	.690	.83	.81	1.5	3.6	16	.020	.06
JAN											
02...	--	--	--	--	--	--	--	--	--	--	--
23...	2.01	28.0	.43	1.100	1.3	.30	1.4	1.8	8.1	.100	.31
FEB											
08...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
28...	1.40	64.0	.59	.750	.91	.25	1.0	1.6	7.0	.160	.49
MAR											
25...	1.69	174	.43	.950	1.2	.65	1.6	2.0	9.0	.260	.80
APR											
07...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
23...	.55	371	.19	.410	.50	2.6	3.0	3.2	14	1.800	5.5
MAY											
13...	1.08	199	.21	.230	.28	1.6	1.8	2.0	8.9	.480	1.5
JUN											
12...	.84	93.7	.18	.120	.15	1.1	1.2	1.4	6.1	.500	1.5
JUL											
09...	.95	58.4	.25	.040	.05	1.6	1.6	1.9	8.2	.050	.15
AUG											
07...	.95	28.2	.29	.010	.01	.55	.56	.85	3.8	.100	.31
SEP											
04...	1.51	39.0	.48	.340	.41	1.2	1.5	2.0	8.8	.110	.34
29...	1.55	27.7	.68	.000	.00	.53	.53	1.2	5.4	.050	.15

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT												
25...	1450	280	280	0	1	0	1	0	0	0	2400	3
NOV												
29...	1500	--	--	--	--	--	--	--	--	--	2000	--
DEC												
19...	1415	--	--	--	--	--	--	--	--	--	2300	--
JAN												
23...	1430	490	--	--	2	--	--	0	--	--	1500	2
FEB												
28...	1530	--	--	--	--	--	--	--	--	--	900	--
MAR												
25...	0925	--	--	--	--	--	--	--	--	--	910	--
APR												
23...	1245	7400	--	--	6	--	--	0	--	--	180	1
MAY												
13...	1230	--	--	--	--	--	--	--	--	--	380	--
JUN												
12...	0900	--	--	--	--	--	--	--	--	--	280	--
JUL												
09...	1130	690	680	10	3	1	2	0	--	<1	310	0
AUG												
07...	0945	--	--	--	--	--	--	--	--	--	440	--
SEP												
04...	1030	--	--	--	--	--	--	--	--	--	1200	--
29...	1445	320	310	10	1	0	1	10	--	<1	1200	0

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT												
25...	3	0	0	0	4	8	8	0	210	--	10	5
NOV												
29...	--	--	--	--	--	--	--	--	--	--	180	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	30	--
JAN												
23...	--	--	10	--	--	7	--	--	520	490	30	3
FEB												
28...	--	--	--	--	--	--	--	--	--	--	50	--
MAR												
25...	--	--	--	--	--	--	--	--	--	--	60	--
APR												
23...	--	--	20	--	--	16	--	--	15000	15000	50	18
MAY												
13...	--	--	--	--	--	--	--	--	--	--	30	--
JUN												
12...	--	--	--	--	--	--	--	--	--	--	<10	--
JUL												
09...	--	<1	10	10	0	230	230	2	4500	4500	40	36
AUG												
07...	--	--	--	--	--	--	--	--	--	--	40	--
SEP												
04...	--	--	--	--	--	--	--	--	--	--	30	--
29...	--	<1	0	0	10	4	1	3	410	390	20	4

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
OCT												
25...	5	0	210	0	240	100	20	80	.0	.0	.0	3
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	100	--	--	--	--	--	.0	--	--	3
FEB												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
25...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
23...	--	--	60	--	--	510	--	--	.0	--	--	2
MAY												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
12...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
09...	34	2	80	10	70	200	180	20	.0	.0	.0	1
AUG												
07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
04...	--	--	--	--	--	--	--	--	--	--	--	--
29...	3	1	120	10	110	60	30	30	.1	.1	.0	6

DATE	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT												
25...	0	3	7	2	5	1	0	1	<1.0	20	10	10
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	9	--	--	1	--	--	--	10	--	--
FEB												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
25...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
23...	--	--	20	--	--	2	--	--	--	190	--	--
MAY												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
12...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
09...	0	5	42	38	4	2	0	2	<6.0	160	140	20
AUG												
07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
04...	--	--	--	--	--	--	--	--	--	--	--	--
29...	0	7	6	3	3	1	0	1	1.0	30	10	20

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)
OCT											
25...	1450	<38	.5	19	1.3	19	1.4	.07	5.9	<26	.3
SEP											
29...	1445	<20	.9	<8.7	1.6	<8.3	1.5	.12	4.7	<14	.6

09222300 LITTLE MUDDY CREEK NEAR GLENCOE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAMFLOW (CFS)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
OCT								
04...	1445	12.0	--	1.8	8	.04	--	--
NOV								
05...	1100	8.5	--	8.5	42	.96	--	--
30...	1400	.0	5.5	--	58	.86	--	--
JAN								
02...	1400	6.5	--	7.4	50	1.0	--	--
FEB								
08...	1610	6.0	--	11	60	1.8	--	--
28...	1430	5.0	--	32	88	7.6	--	--
MAR								
25...	0925	4.0	--	52	289	41	--	--
APR								
07...	1315	3.5	--	124	920	308	56	76
15...	1220	4.0	--	308	2020	1680	69	87
23...	1245	8.0	--	343	1180	1090	71	94
MAY								
13...	1230	9.0	--	93	383	96	--	--
JUN								
12...	0900	13.5	--	56	478	73	--	--
JUL								
09...	1130	16.0	--	31	435	36	--	--
AUG								
07...	0945	15.0	--	15	122	4.9	--	--
SEP								
04...	1030	10.0	--	13	128	4.5	--	--
29...	1445	13.0	--	9.0	72	1.7	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
OCT								
04...	--	--	--	--	--	--	--	--
NOV								
05...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
JAN								
02...	--	--	--	--	--	--	--	--
FEB								
08...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
MAR								
25...	--	--	--	--	--	--	--	--
APR								
07...	95	99	100	--	--	--	--	--
15...	97	100	--	--	--	--	--	--
23...	97	99	100	--	--	--	--	--
MAY								
13...	--	--	--	--	--	--	--	--
JUN								
12...	--	--	--	--	--	--	--	--
JUL								
09...	--	--	--	--	--	--	--	--
AUG								
07...	--	--	--	--	--	--	--	--
SEP								
04...	--	--	--	15	66	89	96	100
29...	--	--	--	--	--	--	--	--

09222400 MUDDY CREEK NEAR HAMPTON, WY

LOCATION.--Lat 41°32'17", long 110°13'43", in NW¼SW¼SW¼ sec.18, T.18 N., R.113 W., Uinta County, Hydrologic Unit 14040108, on left bank 2.0 mi (3.2 km) upstream from mouth, 2.6 mi (4.2 km) southwest of Church Buttes siding, 3.3 mi (5.3 km) downstream from Little Muddy Creek, and 4.2 mi (6.8 km) east of Hampton.

DRAINAGE AREA.--963 mi^2 (2,494 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,320 ft (1,926 m), from topographic map.

REMARKS.--Records fair except those for winter periods, which are poor.

AVERAGE DISCHARGE.--5 years, 37.2 ft^3/s (1.05 m^3/s), 26,950 acre-ft/yr (33.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 754 ft^3/s (21.4 m^3/s) Apr. 21, 1980, gage height, 4.40 ft (1.341 m); maximum gage height, 7.48 ft (2.280 m) Mar. 16, 1980 (backwater from ice); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 754 ft^3/s (21.4 m^3/s) Apr. 21, gage height, 4.40 ft (1.341 m); maximum gage height, 7.48 ft (2.280 m) Mar. 16 (backwater from ice); minimum daily discharge, 0.57 ft^3/s (0.016 m^3/s) Oct. 4, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.75	3.3	2.2	2.4	6.0	90	70	409	196	25	12	11
2	.66	3.1	2.3	2.7	7.0	90	58	420	198	29	13	11
3	.66	3.2	2.4	2.8	8.0	85	50	420	205	39	12	10
4	.57	3.4	2.7	3.1	8.8	75	70	339	203	46	12	9.3
5	.75	3.7	2.9	3.3	9.5	70	150	319	205	44	12	9.9
6	.75	3.8	3.2	2.8	10	65	646	361	225	38	12	8.7
7	.66	4.2	3.5	2.4	10	55	435	409	222	34	12	7.6
8	.57	4.6	3.9	2.5	9.5	50	205	430	182	33	12	8.1
9	1.3	5.5	4.2	2.3	9.0	52	277	346	166	35	11	8.7
10	1.6	6.5	4.2	2.2	8.4	50	566	316	188	34	11	12
11	1.9	8.0	4.1	2.3	7.5	45	402	304	203	33	10	14
12	2.0	7.5	3.8	3.0	7.0	42	231	255	200	28	9.9	19
13	1.7	8.4	3.6	10	6.5	45	172	233	180	27	11	23
14	1.6	9.0	3.2	45	7.0	55	218	207	156	26	13	22
15	1.4	8.5	2.8	30	7.5	65	373	182	134	24	14	19
16	1.4	7.7	2.9	50	8.5	100	486	184	114	21	15	16
17	1.7	7.0	3.3	60	10	150	522	200	105	17	15	15
18	2.6	6.0	3.7	35	9.0	130	522	203	96	17	14	12
19	3.0	5.0	4.0	20	20	140	506	211	89	17	12	12
20	4.3	4.4	4.3	10	30	160	562	188	76	16	12	12
21	4.7	3.9	3.8	8.0	50	190	642	214	66	16	11	12
22	10	3.6	3.3	6.0	80	210	686	250	60	15	12	16
23	9.3	3.3	2.9	5.0	120	200	606	307	55	15	12	19
24	7.1	3.6	2.7	5.0	100	170	486	388	47	15	12	14
25	6.1	3.3	2.5	5.5	85	140	325	361	40	15	11	12
26	5.6	2.9	2.3	4.5	73	120	231	231	33	15	14	11
27	5.1	2.7	2.0	4.0	65	100	264	184	29	14	60	11
28	4.7	2.3	1.9	3.5	71	90	274	164	28	11	22	10
29	4.3	2.1	1.9	3.5	80	85	277	178	25	11	15	10
30	3.9	2.1	2.1	4.0	---	90	310	186	25	10	13	9.3
31	3.7	---	2.3	5.0	---	85	---	205	---	12	12	---
TOTAL	94.37	142.6	94.9	345.8	923.2	3094	10622	8604	3751	732	438.9	384.6
MEAN	3.04	4.75	3.06	11.2	31.8	99.8	354	278	125	23.6	14.2	12.8
MAX	10	9.0	4.3	60	120	210	686	430	225	46	60	23
MIN	.57	2.1	1.9	2.2	6.0	42	50	164	25	10	9.9	7.6
AC-FT	187	283	188	686	1830	6140	21070	17070	7440	1450	871	763

CAL YR 1979 TOTAL 6456.67 MEAN 17.7 MAX 132 MIN .00 AC-FT 12810
WTR YR 1980 TOTAL 29227.37 MEAN 79.9 MAX 686 MIN .57 AC-FT 57970

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
04...	1630	--	.66	4300	--	18.0	3	--	--	--	--
26...	0920	--	6.1	3200	8.2	4.0	--	10.6	1.6	1100	920
NOV											
06...	1025	3.8	--	3200	--	.0	9	--	--	--	--
DEC											
07...	1120	3.5	--	3020	7.9	.0	20	10.7	.8	1000	720
JAN											
03...	1330	2.8	--	4000	--	.0	8	--	--	--	--
09...	1100	2.3	--	3000	8.0	.0	25	8.9	.6	1200	880
FEB											
04...	1500	8.8	--	2200	8.0	.0	65	8.8	1.4	760	420
MAR											
14...	1100	55	--	1750	7.8	.0	250	10.8	3.7	420	210
APR											
16...	1230	--	455	650	7.8	8.0	1400	8.9	7.0	190	72
MAY											
07...	1100	--	315	540	8.4	12.0	900	8.4	2.1	210	55
JUN											
12...	1100	--	236	580	8.4	17.0	330	7.2	1.5	210	22
JUL											
09...	1500	--	36	1300	8.5	23.0	900	7.4	2.2	440	160
AUG											
07...	1305	--	12	1100	7.9	22.0	40	7.4	1.7	430	230
SEP											
04...	1505	--	9.3	1300	8.1	21.0	30	10.1	1.0	470	280

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
26...	260	110	330	4.3	14	180	1500	75	.4	2.6	2400
NOV											
06...	--	--	--	--	--	--	--	--	--	--	--
DEC											
07...	220	110	360	4.9	11	280	1400	78	.5	4.5	2350
JAN											
03...	--	--	--	--	--	--	--	--	--	--	--
09...	270	130	390	4.9	14	330	1500	120	.6	8.8	2630
FEB											
04...	170	81	240	3.8	15	340	740	160	.4	12	1620
MAR											
14...	98	43	150	3.2	11	210	410	99	.3	6.8	945
APR											
16...	44	20	62	1.9	7.4	120	160	37	.3	6.8	411
MAY											
07...	46	22	36	1.1	6.6	150	88	28	.3	10	327
JUN											
12...	47	23	31	.9	4.2	190	65	27	.2	7.8	320
JUL											
09...	75	61	95	2.0	8.3	280	220	88	.5	9.4	726
AUG											
07...	68	63	74	1.6	4.1	200	340	45	.5	2.2	718
SEP											
04...	82	64	99	2.0	6.7	190	450	50	.4	.7	868

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)
OCT 04...	--	--	--	--	--	--	--	--	--	--	--
26...	3.26	39.5	1.6	.710	.86	1.5	2.2	3.8	17	.030	.09
NOV 06...	--	--	--	--	--	--	--	--	--	--	--
DEC 07...	3.20	22.2	3.0	.340	.41	.86	1.2	4.2	19	.030	.09
JAN 03...	--	--	--	--	--	--	--	--	--	--	--
09...	3.58	16.3	2.5	.240	.29	.86	1.1	3.6	16	.040	.12
FEB 04...	2.20	38.5	.47	.770	.93	.43	1.2	1.7	7.4	.020	.06
MAR 14...	1.29	140	.38	.460	.56	.64	1.1	1.5	6.6	.740	2.3
APR 16...	.56	505	.32	--	--	--	--	--	--	4.800	15
MAY 07...	.44	278	.38	.040	.05	4.1	4.1	4.5	20	3.600	11
JUN 12...	.44	204	.06	.080	.10	1.2	1.3	1.4	6.0	1.200	3.7
JUL 09...	.99	70.6	.14	.030	.04	1.1	1.1	1.2	5.5	.100	.31
AUG 07...	.98	23.3	.02	.030	.04	.83	.86	.88	3.9	.100	.31
SEP 04...	1.18	21.8	.00	.000	.00	.86	.86	.86	3.8	.060	.18

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
OCT 26...	0920	470	470	0	1	0	1	0	0	0	2300	2
DEC 07...	1120	--	--	--	--	--	--	--	--	--	2300	--
JAN 09...	1100	--	--	--	--	--	--	--	--	--	3000	--
FEB 04...	1500	--	--	--	--	--	--	--	--	--	1400	--
MAR 14...	1100	--	--	--	--	--	--	--	--	--	670	--
APR 16...	1230	13000	--	--	11	--	--	10	--	--	320	1
MAY 07...	1100	--	--	--	--	--	--	--	--	--	160	--
JUN 12...	1100	--	--	--	--	--	--	--	--	--	160	--
JUL 09...	1500	750	750	0	4	1	3	10	--	<1	300	0
AUG 07...	1305	--	--	--	--	--	--	--	--	--	440	--
SEP 04...	1505	--	--	--	--	--	--	--	--	--	730	--

GREEN RIVER BASIN

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT												
26...	0	2	4	0	8	6	6	0	370	--	10	5
DEC												
07...	--	--	--	--	--	--	--	--	--	--	30	--
JAN												
09...	--	--	--	--	--	--	--	--	--	--	40	--
FEB												
04...	--	--	--	--	--	--	--	--	--	--	40	--
MAR												
14...	--	--	--	--	--	--	--	--	--	--	20	--
APR												
16...	--	--	80	--	--	70	--	--	59000	58000	620	60
MAY												
07...	--	--	--	--	--	--	--	--	--	--	190	--
JUN												
12...	--	--	--	--	--	--	--	--	--	--	130	--
JUL												
09...	--	<1	10	10	0	18	14	4	3500	3500	20	73
AUG												
07...	--	--	--	--	--	--	--	--	--	--	20	--
SEP												
04...	--	--	--	--	--	--	--	--	--	--	30	--

DATE	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI)	LITHIUM SUSPENDED RECOVERABLE (UG/L AS LI)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
OCT												
26...	5	0	250	20	230	20	10	10	.1	.1	.0	1
DEC												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
09...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
04...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
16...	--	--	160	--	--	1900	--	--	.2	--	--	2
MAY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
12...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
09...	71	2	120	0	120	150	150	4	.0	.0	.0	0
AUG												
07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
04...	--	--	--	--	--	--	--	--	--	--	--	--

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT												
26...	0	4	7	2	5	1	0	1	1.0	10	0	10
DEC												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
09...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
04...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
16...	--	--	100	--	--	2	--	--	--	360	--	--
MAY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
12...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
09...	0	6	10	5	5	2	0	2	3.0	70	50	20
AUG												
07...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
04...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)
OCT											
26...	0920	<41	1.8	<15	1.3	<16	1.4	.12	6.8	<28	1.2

09222400 MUDDY CREEK NEAR HAMPTON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAMFLOW (CFS)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM
OCT										
04...	1630	18.0	--	.66	8	.01	--	--	--	--
NOV										
06...	1025	.0	3.8	--	27	.28	--	--	--	--
DEC										
07...	1120	.0	3.5	--	56	.53	--	--	--	--
JAN										
03...	1330	.0	2.8	--	108	.82	--	--	--	--
09...	1100	.0	2.3	--	110	.68	--	--	--	--
FEB										
04...	1500	.0	8.8	--	95	2.3	--	--	--	--
MAR										
14...	1100	.0	55	--	634	94	--	--	--	--
APR										
16...	1230	8.0	--	455	4580	5630	54	78	93	97
MAY										
07...	1100	12.0	--	315	4180	3560	35	59	90	98
JUN										
12...	1100	17.0	--	236	1540	981	27	43	80	96
JUL										
09...	1500	23.0	--	36	334	32	--	--	--	--
AUG										
07...	1305	22.0	--	12	102	3.3	--	--	--	--
SEP										
04...	1505	21.0	--	9.3	75	1.9	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	NUMBER OF SAMPLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
OCT									
04...	--	--	--	--	--	--	--	--	--
NOV									
06...	--	--	--	--	--	--	--	--	--
DEC									
07...	--	--	--	--	--	--	--	--	--
JAN									
03...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
FEB									
04...	--	--	--	--	--	--	--	--	--
MAR									
14...	--	--	--	--	--	--	--	--	--
APR									
16...	100	--	--	--	--	--	--	--	--
MAY									
07...	100	--	--	--	--	--	--	--	--
JUN									
12...	100	--	--	--	--	--	--	--	--
JUL									
09...	--	--	--	--	--	--	--	--	--
AUG									
07...	--	--	--	--	--	--	--	--	--
SEP									
04...	--	20	12	23	67	93	96	99	100

09223000 HAMS FORK BELOW POLE CREEK, NEAR FRONTIER, WY

LOCATION (REVISED).--Lat 42°06'38", long 110°42'32", in NE¼SE¼NW¼ sec.35, T.25 N., R.117 W., Lincoln County, Hydrologic Unit 14040107, on left bank 2.0 mi (3.2 km) downstream from Pole Creek, 4.6 mi (7.4 km) upstream from Taylor Creek, and 22 mi (35 km) northwest of Frontier.

DRAINAGE AREA.--128 mi² (332 km²).

PERIOD OF RECORD.--October 1952 to current year. Prior to October 1970, published as "near Elk Creek ranger station."

GAGE.--Water-stage recorder. Altitude of gage is 7,455 ft (2,272 m), from topographic map. October 1952 to Sept. 2, 1971, at site 270 ft (82 m) upstream at present datum, Sept. 3, 1971 to July 30, 1980, at site 150 ft (46 m) upstream at present datum.

REMARKS.--Records good except those for winter period, which are poor. No diversion above station.

AVERAGE DISCHARGE.--28 years, 101 ft³/s (2.860 m³/s), 73,170 acre-ft/yr (90.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,520 ft³/s (43.0 m³/s) May 28, 1971, gage height, 8.10 ft (2.469 m); minimum daily, 0.10 ft³/s (0.003 m³/s) Aug. 17, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft³/s (9.91 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 24	1100	--	--	a*7.43	2.265	May 24	1000	*956	27.1	7.03	2.143
May 6	0130	944	26.7	7.00	2.134	June 12	0900	644	18.8	6.28	1.914

a-Backwater from ice.

Minimum daily discharge, 11 ft³/s (0.31 m³/s) Dec. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	24	13	13	15	16	14	671	448	230	46	24
2	13	25	14	13	15	16	14	667	496	215	44	22
3	13	25	14	14	16	15	13	615	545	200	42	21
4	13	25	15	14	16	15	14	674	510	185	41	20
5	13	24	15	15	16	14	15	816	510	170	41	20
6	13	25	15	15	15	15	16	872	513	160	39	20
7	14	24	15	14	15	15	15	848	503	150	38	21
8	14	25	16	14	14	15	15	764	499	147	35	23
9	13	24	16	13	13	14	16	844	524	141	34	22
10	13	26	17	13	13	14	18	702	587	131	33	22
11	14	25	17	12	14	15	19	594	629	123	32	29
12	13	26	16	13	14	16	20	531	650	121	31	41
13	14	24	15	14	15	16	19	463	639	115	31	31
14	14	25	16	15	15	15	21	421	608	111	30	26
15	15	27	16	16	16	14	23	424	559	106	30	23
16	18	27	17	17	17	13	25	439	492	100	39	21
17	19	26	17	17	18	13	30	424	451	93	37	22
18	20	24	16	17	19	14	37	409	442	91	31	21
19	59	23	16	16	19	14	44	448	445	91	30	22
20	66	22	15	16	18	15	60	492	451	82	31	22
21	41	20	15	15	18	16	80	608	448	81	30	22
22	34	19	14	15	17	16	97	720	433	74	26	22
23	33	18	14	14	17	15	150	836	412	72	27	22
24	32	17	13	14	16	16	250	908	391	64	26	22
25	32	16	13	13	16	17	400	748	361	64	27	21
26	32	15	12	13	15	16	450	604	330	61	39	21
27	31	15	12	12	15	15	420	517	305	58	32	21
28	29	14	11	12	15	16	415	469	285	54	29	21
29	27	14	11	13	16	17	451	442	260	49	26	20
30	26	13	12	14	---	16	510	418	245	47	24	21
31	22	---	12	14	---	15	---	433	---	47	25	---
TOTAL	723	657	450	440	458	469	3671	18821	13971	3433	1026	686
MEAN	23.3	21.9	14.5	14.2	15.8	15.1	122	607	466	111	33.1	22.9
MAX	66	27	17	17	19	17	510	908	650	230	46	41
MIN	13	13	11	12	13	13	13	409	245	47	24	20
AC-FT	1430	1300	893	873	908	930	7280	37330	27710	6810	2040	1360

CAL YR 1979 TOTAL 30886.7 MEAN 84.6 MAX 736 MIN 9.0 AC-FT 61260
WTR YR 1980 TOTAL 44805.0 MEAN 122 MAX 908 MIN 11 AC-FT 88870

09224050 HAMS FORK NEAR DIAMONDVILLE, WY

LOCATION.--Lat 41°45'06", long 110°31'57", in NW¼SE¼SW¼ sec.36, T.21 N., R.116 W., Lincoln County, Hydrologic Unit 14040107, at bridge on U.S. Highway 30N, 1.9 mi (3.1 km) south of Diamondville, and 2.8 mi (4.5 km) south of Kemmerer.

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
25...	1620	26	560	8.7	9.0	4	12.4	2.2	440	250	120	68
NOV												
29...	1600	50	495	7.8	.0	5	8.9	3.3	K12000	230	75	66
DEC												
19...	1620	38	500	8.0	.5	5	10.8	1.8	6600	250	86	69
JAN												
23...	1600	E50	600	7.5	.5	220	5.7	5.4	5800	300	120	85
FEB												
28...	1630	E70	620	7.6	.5	10	10.2	3.6	5700	270	100	78
MAR												
24...	1825	47	640	8.2	.0	25	10.2	5.0	5600	260	98	72
APR												
24...	1415	738	310	7.8	1.0	55	--	3.2	--	130	39	38
MAY												
13...	0630	826	400	7.8	4.0	30	7.8	1.9	450	170	32	49
JUN												
10...	1000	381	375	8.5	12.0	20	8.8	2.2	540	170	19	51
JUL												
07...	1100	23	400	8.6	17.0	8	8.1	2.2	4800	180	30	54
AUG												
05...	1100	42	420	8.4	15.0	6	9.0	3.0	2100	190	63	54
SEP												
02...	1345	65	370	8.7	15.0	9	10.0	2.7	500	170	39	48
29...	1130	33	480	8.2	9.0	--	9.7	2.9	980	200	64	57

E-Estimate.
K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	SODIUM+ POTAS-SIUM DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT												
25...	19	16	.4	18	2.2	130	130	7.8	.3	1.7	323	.44
NOV												
29...	17	16	.5	18	2.0	160	110	6.1	.3	2.7	316	.43
DEC												
19...	18	12	.3	13	.9	160	100	5.9	.3	1.6	304	.41
JAN												
23...	21	17	.4	19	2.3	180	140	12	.4	6.3	392	.53
FEB												
28...	19	18	.5	20	1.9	170	130	8.9	.3	5.7	364	.50
MAR												
24...	19	18	.5	--	2.3	160	130	11	.2	5.1	354	.48
APR												
24...	9.2	9.9	.4	--	3.4	94	51	7.0	.1	8.2	185	E.25
MAY												
13...	12	12	.4	--	2.3	140	50	5.1	.1	6.7	221	.30
JUN												
10...	10	6.9	.2	--	1.6	150	29	3.1	.2	5.7	198	.27
JUL												
07...	11	6.8	.2	--	1.3	150	33	2.9	.2	5.8	205	.28
AUG												
05...	14	10	.3	--	1.2	130	67	5.0	.4	1.9	232	.32
SEP												
02...	12	8.7	.3	--	1.4	130	50	3.6	.2	1.2	203	.28
29...	15	13	.4	--	1.5	140	93	5.9	.3	.2	270	.37

09224050 HAMS FORK NEAR DIAMONDVILLE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)
OCT 25...	22.7	.32	.160	.19	.62	.78	1.1	4.9	.220	.67	7.3	.3
NOV 29...	42.7	.15	.460	.56	.74	1.2	1.4	6.0	.180	.55	--	--
DEC 19...	31.2	.18	.430	.52	.77	1.2	1.4	6.1	.190	.58	--	--
JAN 23...	52.9	.54	.710	.86	.69	1.4	1.9	8.6	.710	2.2	--	--
FEB 28...	68.8	.28	.520	.63	.34	.86	1.1	5.0	.240	.74	--	--
MAR 24...	44.9	.19	.410	.50	.89	1.3	1.5	6.6	.320	.98	--	--
APR 24...	369	.24	.150	.18	1.2	1.3	1.5	6.8	.500	1.5	9.3	3.7
MAY 13...	493	.11	.060	.07	.88	.94	1.1	4.6	.150	.46	--	--
JUN 10...	204	.00	.080	.10	.34	.42	.42	1.9	.090	.28	10	1.0
JUL 07...	12.7	.02	.010	.01	.41	.42	.44	1.9	.020	.06	--	--
AUG 05...	26.3	.06	.090	.11	.83	.92	.98	4.3	.110	.34	--	--
SEP 02...	35.6	.02	.010	.01	1.1	1.1	1.1	5.0	.130	.40	--	--
29...	24.1	.09	.030	.04	.97	1.0	1.1	4.8	.180	.55	--	--

DATE	TIME	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)
OCT 25...	1620	100	100	0	2	0	2	0	0	<1	50	2
NOV 29...	1600	--	--	--	--	--	--	--	--	--	50	--
DEC 19...	1620	--	--	--	--	--	--	--	--	--	30	--
JAN 23...	1600	--	--	--	--	--	--	--	--	--	60	--
FEB 28...	1630	--	--	--	--	--	--	--	--	--	40	--
MAR 24...	1825	--	--	--	--	--	--	--	--	--	70	--
APR 24...	1415	2200	2000	230	2	1	1	0	--	<1	60	1
MAY 13...	0630	--	--	--	--	--	--	--	--	--	30	--
JUN 10...	1000	510	460	50	1	0	1	0	--	<1	60	0
JUL 07...	1100	--	--	--	--	--	--	--	--	--	20	--
AUG 05...	1100	--	--	--	--	--	--	--	--	--	60	--
SEP 02...	1345	--	--	--	--	--	--	--	--	--	60	--
29...	1130	70	60	10	1	0	1	0	0	1	30	0

09224050 HAMS FORK NEAR DIAMONDVILLE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)
OCT												
25...	1	<1	4	4	0	0	0	0	90	--	120	2
NOV												
29...	--	--	--	--	--	--	--	--	--	--	130	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	40	--
JAN												
23...	--	--	--	--	--	--	--	--	--	--	30	--
FEB												
28...	--	--	--	--	--	--	--	--	--	--	20	--
MAR												
24...	--	--	--	--	--	--	--	--	--	--	80	--
APR												
24...	--	<1	0	0	0	5	0	6	4200	3200	970	12
MAY												
13...	--	--	--	--	--	--	--	--	--	--	40	--
JUN												
10...	--	<1	0	0	0	4	0	4	1600	1600	50	1
JUL												
07...	--	--	--	--	--	--	--	--	--	--	20	--
AUG												
05...	--	--	--	--	--	--	--	--	--	--	40	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	30	--
29...	--	<1	0	0	0	5	2	3	150	130	20	4

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
OCT												
25...	2	0	10	0	10	40	0	40	.0	.0	.0	0
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
24...	4	8	10	0	10	280	110	170	.0	.0	.0	0
MAY												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
10...	1	0	10	0	10	110	80	30	.0	.0	.3	1
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
05...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--
29...	4	0	10	0	20	40	10	30	.1	.1	.0	0

09224050 HAMS FORK NEAR DIAMONDVILLE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT												
25...	0	<10	2	2	0	0	0	0	<1.0	30	20	6
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
24...	--	<10	6	4	2	0	0	0	2.0	60	40	20
MAY												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
10...	--	<10	11	11	0	0	0	0	2.0	60	20	40
JUL												
07...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
05...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	<10	3	3	0	0	0	0	1.0	30	10	20

09224450 HAMS FORK NEAR GRANGER, WY

LOCATION.--Lat 41°35'56", long 109°59'28", in center of sec.30, T.19 N., R.111 W., Sweetwater County, Hydrologic Unit 14040107, at railroad bridge, 1.2 mi (1.9 km) northwest of Granger, and 1.8 mi (2.9 km) upstream from mouth.

DRAINAGE AREA.--670 mi^2 (1,740 km^2), approximately.

PERIOD OF RECORD.--Water years 1965 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT								
26...	0740	9.8	820	8.1	5.5	15	310	120
NOV								
30...	0830	47	680	8.0	.5	7	310	97
DEC								
20...	0715	42	700	8.0	.5	7	300	100
JAN								
24...	0730	E50	740	7.6	.0	10	310	110
FEB								
29...	0740	E70	730	7.5	.5	8	300	120
MAR								
25...	1330	66	550	8.3	.0	220	190	18
APR								
23...	1315	615	350	8.2	9.0	400	130	32
MAY								
14...	0830	1350	500	8.2	7.5	40	210	38
JUN								
10...	0815	610	400	8.6	14.0	35	210	38
JUL								
07...	0915	180	700	8.5	17.5	15	280	67
AUG								
05...	0915	67	660	8.1	16.0	5	280	83
SEP								
02...	0950	24	690	8.2	13.0	8	270	98
29...	0930	29	480	8.6	10.5	9	260	88

E-Estimate.

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
26...	82	26	60	1.5	2.3	230	0	190	220
NOV									
30...	85	24	42	1.0	2.3	260	0	210	170
DEC									
20...	82	22	41	1.0	2.2	240	0	200	160
JAN									
24...	79	27	51	1.3	5.0	240	0	200	180
FEB									
29...	75	28	33	.8	3.0	220	0	180	140
MAR									
25...	55	13	34	1.1	2.0	210	0	170	77
APR									
23...	32	12	20	.8	2.6	120	0	98	59
MAY									
14...	60	14	23	.7	3.1	210	0	170	84
JUN									
10...	62	13	19	.6	1.0	210	0	170	72
JUL									
07...	76	22	41	1.1	1.8	260	0	210	130
AUG									
05...	66	27	40	1.0	1.7	240	0	200	130
SEP									
02...	67	25	43	1.1	1.7	210	0	170	160
29...	67	21	34	.9	2.0	210	0	170	130

09224450 HAMS FORK NEAR GRANGER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT 26...	22	.5	2.8	526	.72	13.9	.00	.080
NOV 30...	22	.4	1.1	477	.65	60.5	.00	.000
DEC 20...	19	.4	.8	448	.61	50.8	.00	.110
JAN 24...	31	.5	3.2	499	.68	--	.99	.080
FEB 29...	23	.4	2.6	415	.56	--	.39	.050
MAR 25...	14	.3	3.0	298	.41	53.1	.00	.420
APR 23...	7.3	.4	--	--	--	332	.98	1.800
MAY 14...	9.9	.4	6.9	300	.41	1090	.13	.280
JUN 10...	5.8	.3	5.4	280	.38	461	.07	.160
JUL 07...	13	.5	6.9	420	.57	204	.00	.010
AUG 05...	16	.2	2.1	403	.55	72.9	.17	.020
SEP 02...	19	.5	3.6	420	.57	27.2	.00	.030
29...	18	.4	1.9	370	.50	29.0	.03	.030

DATE	TIME	TEMPERATURE, WATER (DEG C)	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM
OCT 26...	0740	5.5	9.8	40	1.1	--	--
NOV 30...	0830	.5	47	9	1.1	--	--
DEC 20...	0715	.5	42	44	5.0	--	--
JAN 24...	0730	.0	E50	22	--	--	--
FEB 29...	0740	.5	E70	16	--	--	--
MAR 25...	1330	.0	66	426	76	--	--
APR 23...	1315	9.0	615	1500	2490	50	77
MAY 14...	0830	7.5	1350	233	849	--	--
JUL 07...	0915	17.5	180	34	17	--	--
AUG 05...	0915	16.0	67	40	7.2	--	--
SEP 02...	0950	13.0	24	41	2.7	--	--
29...	0930	10.5	29	31	2.4	--	--

E-Estimate.

09224450 HAMS FORK NEAR GRANGER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
OCT							
26...	--	--	--	--	--	--	--
NOV							
30...	--	--	--	--	--	--	--
DEC							
20...	--	--	--	--	--	--	--
JAN							
24...	--	--	--	--	--	--	--
FEB							
29...	--	--	--	--	--	--	--
MAR							
25...	--	--	--	--	--	--	--
APR							
23...	98	100	--	--	--	--	--
MAY							
14...	--	--	--	--	--	--	--
JUL							
07...	--	--	--	--	--	--	--
AUG							
05...	--	--	--	--	--	--	--
SEP							
02...	--	--	3	12	48	95	100
29...	--	--	--	--	--	--	--

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY

LOCATION.--Lat 41°32'46", long 109°41'34", in NE¼NE¼NE¼ sec.15, T.18 N., R.109 W., Sweetwater County, Hydrologic Unit 14040107, on right bank 200 ft (61 m) upstream from bridge on U.S. Highway 30, 4.2 mi (6.8 km) upstream from Meadow Springs Wash, and 8.5 mi (13.7 km) east of Little America.

DRAINAGE AREA.--3,100 mi^2 (8,030 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,127.66 ft (1,867.711 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter months, which are poor. Natural flow of stream affected by regulation from Meeks Cabin Reservoir, capacity, 32,470 acre-ft (40.0 hm^3), since June 1971, Viva Naughton Reservoir, capacity, 42,400 acre-ft (52.3 hm^3), from State Line Reservoir, capacity, 14,000 acre-ft (17.3 hm^3), since April 1980, numerous smaller reservoirs, and diversions for irrigation of about 76,100 acres (308 km^2) above station.

AVERAGE DISCHARGE.--18 years, 338 ft^3/s (9.572 m^3/s), 244,900 acre-ft/yr (302 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,980 ft^3/s (283 m^3/s) June 13, 1965, gage height, 10.90 ft (3.322 m); no flow Sept. 20-26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,090 ft^3/s (87.5 m^3/s) May 8, gage height, 7.48 ft (2.280 m); maximum gage height, 9.51 ft (2.899 m) Mar. 17 (backwater from ice); minimum daily discharge, 0.76 ft^3/s (0.022 m^3/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	13	24	16	25	400	229	1700	1170	422	140	38
2	1.6	12	25	17	35	500	217	2060	1110	430	145	38
3	1.2	13	26	18	50	450	209	2000	1130	842	140	37
4	.89	14	28	19	54	430	200	2010	1120	899	120	38
5	.76	16	29	22	50	400	228	2060	1160	620	100	38
6	.81	18	31	25	45	380	512	2320	1280	552	100	36
7	1.2	19	31	23	41	350	817	2510	1280	481	84	37
8	2.0	20	32	23	38	350	655	2810	1150	432	63	35
9	2.2	20	32	25	35	340	494	2230	1120	408	60	33
10	2.5	15	30	22	33	330	590	2160	1040	412	52	34
11	2.3	13	28	22	32	320	803	2260	1060	353	46	51
12	1.9	12	26	25	32	330	710	2640	1060	304	45	55
13	2.3	11	28	30	34	350	550	2410	1040	261	41	76
14	3.2	12	30	35	35	365	534	2010	1000	230	39	85
15	4.0	13	32	50	39	420	536	1730	961	205	40	87
16	4.8	13	33	70	45	600	702	1480	946	192	50	76
17	5.2	12	34	80	54	1000	964	1140	964	178	51	66
18	5.4	13	32	80	66	750	1000	989	986	170	49	61
19	6.1	14	30	70	90	600	1010	920	964	170	47	58
20	8.8	13	28	50	140	600	1050	826	855	180	40	56
21	11	13	28	42	200	680	1160	747	721	160	36	49
22	13	13	25	35	280	800	1350	771	640	140	34	40
23	18	14	22	33	320	750	1450	870	667	130	32	41
24	17	25	20	35	300	800	1490	1150	666	180	31	42
25	16	26	19	35	270	600	1520	1450	636	200	32	42
26	15	25	18	33	250	450	1510	1700	606	180	30	43
27	14	23	17	29	260	350	1270	1690	575	160	29	43
28	13	21	16	26	280	269	1210	1530	517	160	33	44
29	14	21	15	22	300	236	1350	1480	463	170	60	44
30	14	23	15	21	---	233	1500	1280	442	170	49	42
31	14	---	16	20	---	227	---	1300	---	165	38	---
TOTAL	218.46	490	800	1053	3433	14660	25820	52233	27329	9556	1856	1465
MEAN	7.05	16.3	25.8	34.0	118	473	861	1685	911	308	59.9	48.8
MAX	18	26	34	80	320	1000	1520	2810	1280	899	145	87
MIN	.76	11	15	16	25	227	200	747	442	130	29	33
AC-FT	433	972	1590	2090	6810	29080	51210	103600	54210	18950	3680	2910

CAL YR 1979 TOTAL 56437.96 MEAN 155 MAX 747 MIN .76 AC-FT 111900
WTR YR 1980 TOTAL 138913.46 MEAN 380 MAX 2810 MIN .76 AC-FT 275500

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to current year.
WATER TEMPERATURES: March 1951 to September 1963, December 1964 to current year.

REMARKS.--Published as "near Green River" prior to October 1953 and as "near Marston" October 1953 to September 1964. Partial record of specific conductance and temperature for water years 1979 and 1980 are available at District office.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 6,010 micromhos Oct. 1, 1953; minimum daily, 411 micromhos May 13, 1969.
WATER TEMPERATURES: Maximum, 29.0°C July 15, 16, 1955, June 5, 1977; minimum, 0.0°C on many days during winter period most years.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)
OCT									
05...	1045	.86	2500	--	9.0	130	--	--	--
24...	0830	18	3000	8.3	4.0	10	10.4	20	870
NOV									
09...	0920	20	2220	--	.0	30	--	--	--
30...	0830	23	1950	--	.5	4	--	--	--
30...	1340	23	2000	8.1	.0	5	11.6	K8	650
DEC									
18...	0900	32	2600	8.2	.0	5	11.4	K9	670
JAN									
04...	0930	19	1700	--	.0	4	--	--	--
22...	0930	35	970	7.9	.5	15	11.2	K18	310
FEB									
06...	1545	45	1750	--	.0	35	--	--	--
29...	1130	300	1130	8.0	.5	60	11.0	K40	330
MAR									
14...	0945	365	900	7.7	2.0	800	11.4	63	340
27...	1000	332	950	--	1.5	4100	--	--	--
APR									
18...	1055	968	650	7.7	8.0	10200	9.6	K90	180
MAY									
14...	1315	2000	700	8.5	11.0	350	8.9	190	200
JUN									
16...	1110	954	725	7.7	15.0	2700	7.7	50	270
JUL									
10...	1430	408	1400	8.4	22.0	--	7.5	K340	440
AUG									
08...	1030	64	1850	8.1	19.0	9	8.3	K13	540
SEP									
03...	1430	36	2000	8.2	19.0	--	8.7	400	650

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT									
05...	--	--	--	--	--	--	--	--	--
24...	730	200	91	360	5.3	6.4	140	1400	90
NOV									
09...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
30...	400	160	61	230	3.9	4.9	250	800	67
DEC									
18...	410	150	71	320	5.4	6.0	260	930	81
JAN									
04...	--	--	--	--	--	--	--	--	--
22...	170	77	29	120	3.0	6.4	140	350	36
FEB									
06...	--	--	--	--	--	--	--	--	--
29...	170	83	29	120	2.9	5.2	160	360	42
MAR									
14...	190	84	31	140	3.3	5.3	150	370	63
27...	--	--	--	--	--	--	--	--	--
APR									
18...	68	45	16	74	2.4	3.9	110	170	30
MAY									
14...	45	54	17	51	1.6	3.8	160	120	24
JUN									
16...	85	72	23	55	1.4	3.1	190	170	18
JUL									
10...	200	110	41	150	3.1	6.0	240	470	43
AUG									
08...	340	120	59	220	4.1	4.0	200	710	65
SEP									
03...	490	140	74	290	4.9	6.8	160	960	77

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)
OCT								
05...	--	--	--	--	--	--	--	--
24...	.5	2.2	2240	3.05	109	.01	860	40
NOV								
09...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
30...	.5	2.7	1480	2.01	91.9	.20	510	160
DEC								
18...	.5	3.9	1720	2.34	149	.18	600	60
JAN								
04...	--	--	--	--	--	--	--	--
22...	.3	7.9	714	.97	67.5	.70	440	30
FEB								
06...	--	--	--	--	--	--	--	--
29...	.3	7.9	746	1.01	604	.51	430	30
MAR								
14...	.3	13	799	1.09	787	.27	260	650
27...	--	--	--	--	--	--	--	--
APR								
18...	.3	7.0	413	.56	1080	.16	170	40
MAY								
14...	.3	10	378	.51	2040	.18	300	350
JUN								
16...	.3	10	466	.63	1200	.03	140	30
JUL								
10...	.5	12	979	1.33	1080	.37	300	20
AUG								
08...	.7	5.8	1310	1.78	226	.01	390	40
SEP								
03...	.6	1.6	1650	2.24	160	.00	710	30

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	PCB TOTAL (UG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT 22...	1630	12	9.0	.00	0	--	--	.00	.0	.0	0
MAY 19...	1630	946	15.0	.00	0	.0	.0	.00	.0	.0	0
SEP 04...	0850	39	15.0	.00	0	.0	.0	.00	.0	.0	0

DATE	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDO-SULFAN, TOTAL (UG/L)	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT 22...	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0
MAY 19...	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0
SEP 04...	.00	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0

DATE	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)
OCT 22...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
MAY 19...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
SEP 04...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00

DATE	METH-OXY-CHLOR, TOTAL (UG/L)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	PER-THANE IN BOTTOM MATERIL (UG/KG)	TOX-APHENE, TOTAL (UG/L)
OCT 22...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0
MAY 19...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0
SEP 04...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0

DATE	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)	2,4-DP IN BOTTOM MATERIL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT 22...	0	.00	.00	0	.00	.0	.00	0	.00	.0
MAY 19...	0	.00	.00	<.1	<.1	<.1	.00	0	.00	.0
SEP 04...	0	.00	.00	0	.00	.0	.04	0	.00	.0

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA-TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA-TERIAL (UG/KG)
OCT				
22...	.00	.0	.00	.0
MAY				
19...	.00	.0	.00	.0
SEP				
04...	.00	.0	.00	.0

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT								
05...	1045	9.0	.86	118	.27	--	--	--
NOV								
09...	0920	.0	20	77	4.2	--	--	--
30...	0830	.5	23	18	1.1	--	--	--
JAN								
04...	0930	.0	19	56	2.9	--	--	--
FEB								
06...	1545	.0	45	126	15	--	--	--
MAR								
14...	0945	2.0	365	670	660	--	--	--
27...	1000	1.5	332	1880	1690	64	91	95
APR								
18...	1055	8.0	968	5260	13700	63	87	98
MAY								
14...	1315	11.0	2000	1710	9230	46	62	82
JUN								
16...	1110	15.0	954	658	1700	--	--	--
JUL								
10...	1430	22.0	408	379	418	--	--	--
AUG								
08...	1030	19.0	64	39	6.7	--	--	--
SEP								
03...	1430	19.0	36	29	2.8	--	--	--
10...	0845	--	--	--	--	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM
OCT									
05...	--	--	--	--	--	--	--	--	--
NOV									
09...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
JAN									
04...	--	--	--	--	--	--	--	--	--
FEB									
06...	--	--	--	--	--	--	--	--	--
MAR									
14...	--	--	--	--	--	--	--	--	--
27...	96	100	--	--	--	--	--	--	--
APR									
18...	100	--	--	--	--	--	--	--	--
MAY									
14...	92	97	100	--	--	--	--	--	--
JUN									
16...	--	--	--	--	--	--	--	--	--
JUL									
10...	--	--	--	56	--	--	--	--	--
AUG									
08...	--	--	--	91	--	--	--	--	--
SEP									
03...	--	--	--	--	--	--	--	--	--

GREEN RIVER BASIN

09224700 BLACKS FORK NEAR LITTLE AMERICA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
OCT								
05...	--	--	--	--	--	--	--	--
NOV								
09...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
JAN								
04...	--	--	--	--	--	--	--	--
FEB								
06...	--	--	--	--	--	--	--	--
MAR								
14...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
APR								
18...	--	--	--	--	--	--	--	--
MAY								
14...	--	--	--	--	--	--	--	--
JUN								
16...	--	--	--	--	--	--	--	--
JUL								
10...	--	--	--	--	--	--	--	--
AUG								
08...	--	--	--	--	--	--	--	--
SEP								
03...	--	--	--	--	--	--	--	--
10...	40	40	40	40	41	44	56	85

09228500 BURNT FORK NEAR BURNTFORK, WY

LOCATION.--Lat 40°56'47", long 110°03'56", in NE¼SE¼SE¼ sec.36, T.3 N., R.16 E., Summit County, UT, Hydrologic Unit 14040106, Wasatch National Forest, on left bank 0.6 mi (1.0 km) upstream from forest boundary and 6.5 mi (10.5 km) southwest of Burntfork.

DRAINAGE AREA.--52.8 mi² (136.8 km²).

PERIOD OF RECORD.--April 1943 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1944.

GAGE.--Water-stage recorder. Altitude of gage is 8,430 ft (2,569 m), from topographic map. Prior to June 10, 1965, water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum. June 10 to Oct. 5, 1965, water-stage recorder at site 400 ft (122 m) downstream at different datum.

REMARKS.--Records fair. Flow is partially regulated by Island Lake, capacity, 797 acre-ft (0.983 hm³), and Beaver Meadows Reservoir, capacity, 1,722 acre-ft (2.12 hm³). Diversion out of basin above station into Hoop Lake, capacity, 3,920 acre-ft (4.83 hm³).

COOPERATION.--Records collected and computed by Office of the Wyoming State Engineer and reviewed by Geological Survey.

AVERAGE DISCHARGE.--28 years (water years 1944-71), 31.1 ft³/s (0.881 m³/s), 22,530 acre-ft/yr (27.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,200 ft³/s (90.6 m³/s) June 10, 1965 (gage height, not determined), from slope-area measurement of peak flow; minimum daily, 0.65 ft³/s (0.018 m³/s) Mar. 31, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 394 ft³/s (11.2 m³/s) June 10, gage height, 3.41 ft (1.04 m); minimum daily during period of operation, 5.1 ft³/s (0.144 m³/s) Apr. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							5.4	12	117	80	54	15
2							5.6	12	117	130	48	15
3							5.7	13	135	120	43	14
4							5.8	15	191	110	39	13
5							5.8	18	218	100	35	14
6							5.5	19	200	87	32	14
7							5.8	26	191	80	29	14
8							6.0	31	206	89	27	14
9							5.4	33	233	98	24	15
10							5.4	31	311	97	22	24
11							5.4	26	278	93	20	23
12							5.1	24	227	90	18	20
13							5.3	22	227	90	16	21
14							5.5	21	191	90	17	18
15							5.7	24	161	91	20	15
16							5.3	24	149	93	20	15
17							5.5	25	114	93	20	15
18							6.5	23	99	89	16	14
19							8.0	26	68	84	15	13
20							9.0	30	194	80	15	13
21							10	46	200	79	14	13
22							10	70	197	75	14	13
23							9.6	108	167	75	13	13
24							7.8	89	149	75	15	13
25							8.2	64	112	70	15	13
26							8.9	60	74	66	18	13
27							9.2	66	46	60	18	13
28							10	86	43	59	15	12
29							14	93	50	57	14	12
30							13	82	60	57	15	11
31							---	91	---	55	15	---
TOTAL							218.4	1310	4725	2612	696	445
MEAN							7.28	42.3	158	84.3	22.5	14.8
MAX							14	108	311	130	54	24
MIN							5.1	12	43	55	13	11
AC-FT							433	2600	9370	5180	1380	883

09229500 HENRYS FORK NEAR MANILA, UT

LOCATION.--Lat 41°00'45", long 109°40'20", in NW¼NW¼ sec.23, T.12 N., R.109 W., Sweetwater County, WY, Hydrologic Unit 14040106, on right bank 0.8 mi (1.3 km) north of Wyoming-Utah State line, 1.3 mi (2.1 km) upstream from normal high-water line of Flaming Gorge Reservoir at elevation 6,045 ft (1,843 m), and 3.0 mi (4.8 km) northeast of Manila, UT.

DRAINAGE AREA.--520 mi^2 (1,350 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1971, published as "at Linwood, UT."

REVISED RECORDS.--WSP 1443: 1955. WDR WY-76-2: 1970.

GAGE.--Water-stage recorder. Altitude of gage is 6,060 ft (1,847 m), from topographic map. Prior to Oct. 1, 1957, nonrecording gages or water-stage recorder at several sites about 2.0 mi (3.2 km) downstream at various datums. Oct. 1, 1957, to Dec. 2, 1965, water-stage recorders at sites about 1.0 mi (1.6 km) upstream at different datums.

REMARKS.--Records good except those for winter period and period of no gage-height record, Jan. 1 to Feb. 12, which are poor. Peoples Irrigation Canal diverts 5.9 mi (9.5 km) upstream. Natural flow of stream affected by transbasin diversions, small storage reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--52 years, 81.0 ft^3/s (2.294 m^3/s), 58,680 acre-ft/yr (72.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge determined, 6,750 ft^3/s (191 m^3/s) Aug. 3, 1936, gage height, 7.19 ft (2.192 m), site and datum then in use, from floodmarks, from rating curve extended above 570 ft^3/s (16.1 m^3/s) on basis of slope-area measurement of peak flow; higher discharge occurred July 15, 1959, gage height, 9.42 ft (2.871 m), site and datum then in use, discharge not determined; no flow for several days in 1933-35, 1939-40.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,040 ft^3/s (29.5 m^3/s) July 3, gage height, 5.09 ft (1.551 m); minimum daily, 1.7 ft^3/s (0.048 m^3/s) Oct. 6-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	22	29	36	36	72	41	227	230	118	11	26
2	2.1	22	31	38	40	74	41	124	254	240	12	19
3	2.1	29	34	40	42	72	45	82	227	734	10	17
4	2.1	38	38	42	43	67	50	72	212	331	10	16
5	1.9	41	40	43	40	68	55	78	274	238	10	16
6	1.7	44	42	42	38	62	50	83	370	150	10	15
7	1.7	48	43	40	36	63	47	171	389	92	8.4	15
8	1.7	47	45	39	34	66	50	258	386	81	7.2	15
9	1.9	45	45	40	33	61	55	184	448	113	7.3	14
10	2.1	42	43	39	32	64	54	165	545	135	7.4	17
11	2.6	41	40	41	32	66	52	292	618	102	7.0	22
12	2.8	41	38	50	33	59	50	314	652	71	6.8	25
13	2.8	42	40	60	35	53	53	219	568	63	6.7	25
14	2.3	43	42	70	40	70	56	184	437	51	6.5	25
15	2.3	45	43	70	45	70	54	144	343	35	7.2	22
16	2.1	44	44	66	50	50	60	205	287	30	11	21
17	2.1	43	44	64	55	51	80	153	236	27	17	18
18	2.1	42	43	55	64	56	110	132	257	21	11	16
19	1.9	41	41	50	80	56	150	118	297	15	8.1	14
20	3.6	39	39	45	100	62	180	85	354	21	8.7	12
21	5.9	37	37	43	100	65	210	64	355	20	8.2	12
22	6.6	35	39	40	95	52	180	92	276	13	7.5	13
23	8.7	37	39	40	87	58	140	168	233	21	6.9	12
24	9.7	35	38	43	83	52	120	242	190	23	7.0	11
25	11	34	37	42	80	48	110	223	177	22	8.0	10
26	11	32	35	40	80	52	108	156	159	13	19	9.9
27	17	30	33	39	83	49	105	112	131	10	22	9.5
28	20	28	32	37	87	51	98	97	115	8.8	36	9.5
29	23	26	31	34	82	44	94	129	90	9.7	29	6.6
30	24	27	32	33	---	43	142	159	94	10	26	5.6
31	23	---	34	32	---	42	---	165	---	9.0	27	---
TOTAL	204.1	1120	1191	1393	1685	1818	2640	4897	9204	2827.5	379.9	469.1
MEAN	6.58	37.3	38.4	44.9	58.1	58.6	88.0	158	307	91.2	12.3	15.6
MAX	24	48	45	70	100	74	210	314	652	734	36	26
MIN	1.7	22	29	32	32	42	41	64	90	8.8	6.5	5.6
AC-FT	405	2220	2360	2760	3340	3610	5240	9710	18260	5610	754	930

CAL YR 1979 TOTAL 10141.87 MEAN 27.8 MAX 263 MIN .45 AC-FT 20120
WTR YR 1980 TOTAL 27828.60 MEAN 76.0 MAX 734 MIN 1.7 AC-FT 55200

09229500 HENRYS FORK NEAR MANILA, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to September 1979.
WATER TEMPERATURES: March 1951 to September 1979.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)
OCT												
05...	1420	1.7	2700	8.1	14.0	1200	990	260	140	120	1.5	15

DATE	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)
OCT											
05...	240	1200	43	.6	14	1940	2.64	8.90	.53	490	20

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)	2,4-DP IN BOTTOM MATERIL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
JUN											
06...	1135	351	14.0	.00	0	.00	.0	.00	0	.00	.0
JUL											
14...	1230	53	19.0	.00	0	.00	.0	.00	0	.00	.0
SEP											
04...	1120	17	14.0	.03	0	.00	.0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA-TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA-TERIAL (UG/KG)
JUN				
06...	.00	.0	.01	.0
JUL				
14...	.00	.0	.01	.0
SEP				
04...	.00	.0	.00	.0

09234400 FLAMING GORGE RESERVOIR AT FLAMING GORGE DAM, UT

LOCATION.--Lat 40°54'23", long 109°25'15", in NW¼NE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, at Flaming Gorge Dam on Green River, 1.8 mi (2.9 km) southwest of Dutch John, and 4.9 mi (7.9 km) northeast of Greendale.

DRAINAGE AREA.--19,350 mi^2 (50,100 km^2), approximately, of which about 4,260 mi^2 (11,000 km^2), including 3,959 mi^2 (10,254 km^2) in Great Divide Basin in southern Wyoming, is probably noncontributing.

PERIOD OF RECORD.--November 1962 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.-- Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). Prior to Jan. 1, 1964, on left bank 600 ft (180 m) upstream from face of dam.

REMARKS.--Records excellent. Reservoir is formed by concrete arch-type dam; storage began Nov. 1, 1962; mass concrete of dam completed Nov. 15, 1962. Total capacity, 3,789,000 acre-ft (4,670 hm^3), consisting of the following: Dead storage, 39,700 acre-ft (49.0 hm^3) below elevation 5,740 ft (1,750 m); inactive storage, 233,500 acre-ft (288 hm^3) between elevations 5,740 ft (1,750 m) and 5,871 ft (1,789 m), usable contents, 3,516,000 acre-ft (4,340 hm^3) between elevations 5,871 ft (1,789 m) and 6,040 ft (1,841 m), top of conservation pool. Reservoir is used for flood control, storage replacement to meet downstream requirements under the Colorado River Compact of 1922, and power development. Figures given herein represent usable contents. Transbasin diversions and diversions for irrigation above station.

COOPERATION.--Records furnished by Water and Power Resources Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 3,753,000 acre-ft (4,630 hm^3) July 31, 1975, elevation, 6,040.09 ft (1,841.019 m); minimum, 582,900 acre-ft (719 hm^3) Apr. 26, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 3,129,000 acre-ft (3,858 hm^3) Aug. 4-7, elevation, 6,024.23 ft (1,836.185 m); minimum observed, 2,222,000 acre-ft (2,740 hm^3) Mar. 13, elevation, 5,996.42 ft (1,827.709 m).

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,995	2,181,000	6,015	2,804,000
6,000	2,327,000	6,020	2,977,000
6,005	2,480,000	6,025	3,257,000
6,010	2,639,000		

CONTENTS, IN THOUSANDS OF ACRE-FEET, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2569	2519	2452	2396	2312	2245	2249	2388	2654	2967	3128	3118
2	2566	2516	2449	2391	2312	2245	2251	2396	2665	2978	3127	3117
3	2564	2515	2445	2390	2312	2246	2253	2406	2674	2989	3128	3115
4	2564	2514	2444	2390	2309	2243	2255	2413	2685	3004	3129	3115
5	2563	2513	2441	2386	2307	2241	2257	2418	2696	3014	3129	3113
6	2563	2509	2437	2385	2305	2236	2262	2426	2708	3026	3129	3111
7	2562	2507	2434	2382	2303	2232	2263	2436	2719	3036	3129	3110
8	2558	2505	2434	2378	2297	2231	2265	2449	2731	3048	3128	3110
9	2558	2506	2433	2376	2293	2228	2268	2456	2741	3054	3126	3110
10	2555	2504	2430	2372	2290	2227	2270	2465	2751	3060	3125	3109
11	2552	2502	2426	2368	2285	2224	2272	2474	2761	3069	3124	3109
12	2547	2500	2424	2363	2283	2222	2276	2486	2771	3075	3123	3108
13	2545	2498	2420	2361	2279	2222	2278	2494	2777	3079	3122	3107
14	2544	2497	2417	2360	2276	2222	2278	2502	2784	3084	3122	3107
15	2544	2496	2416	2360	2273	2224	2280	2511	2789	3088	3120	3107
16	2543	2495	2416	2358	2270	2226	2282	2517	2794	3092	3124	3106
17	2542	2494	2414	2356	2268	2227	2285	2524	2803	3096	3121	3103
18	2541	2494	2412	2353	2267	2230	2290	2529	2816	3099	3121	3102
19	2540	2492	2412	2352	2262	2231	2294	2531	2828	3101	3122	3101
20	2539	2489	2411	2350	2259	2231	2302	2537	2838	3106	3122	3099
21	2543	2484	2409	2346	2256	2232	2309	2544	2851	3108	3122	3100
22	2541	2483	2409	2341	2250	2235	2318	2551	2862	3110	3121	3098
23	2539	2483	2408	2340	2247	2237	2324	2558	2875	3111	3122	3095
24	2539	2482	2406	2339	2247	2239	2334	2568	2886	3114	3124	3092
25	2538	2481	2407	2339	2244	2239	2346	2575	2900	3117	3122	3089
26	2538	2479	2406	2338	2244	2240	2356	2582	2915	3119	3122	3086
27	2536	2475	2405	2338	2245	2242	2362	2590	2924	3120	3122	3083
28	2534	2470	2400	2334	2244	2243	2368	2600	2935	3122	3120	3083
29	2529	2464	2399	2328	2244	2246	2374	2613	2950	3122	3120	3079
30	2525	2457	2399	2323	---	2248	2381	2626	2959	3120	3119	3078
31	2522	---	2396	2318	---	2249	---	2639	---	3124	3117	---
MAX	2569	2519	2452	2396	2312	2249	2381	2639	2959	3124	3129	3118
MIN	2522	2457	2396	2318	2244	2222	2249	2388	2654	2967	3117	3078
(†)	6006.36	6004.28	6002.30	5999.70	5997.18	5997.35	6001.80	6010.02	6019.50	6024.11	6023.90	6022.82
(‡)	-49	-65	-61	-78	-74	+5	+132	+258	+320	+165	-7	-39

CAL YR 1979 . . . . . (‡) -277
WTR YR 1980 . . . . . (‡) +507
(†) Elevation, in feet, at end of month.
(‡) Change in contents, in thousands of acre-feet.

09234500 GREEN RIVER NEAR GREENDALE, UT

LOCATION.--Lat 40°54'30", long 109°25'20", in NW¼SE¼ sec.15, T.2 N., R.22 E., Daggett County, Hydrologic Unit 14040106, Ashley National Forest, on right bank 0.5 mi (0.8 km) downstream from Flaming Gorge Dam, 2 mi (3 km) south of Dutch John, 4 mi (6 km) northeast of Greendale, and 407.0 mi (654.9 km) from mouth.

DRAINAGE AREA.--19,350 mi² (50,100 km²), approximately, of which about 4,260 mi² (11,000 km²) is probably noncontributing. This noncontributing area includes 3,959 mi² (10,254 km²) in Great Divide Basin in southern Wyoming.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WDR UT-76-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,594.48 ft (1,705.20 m), National Geodetic Vertical Datum of 1929. Prior to Sept. 2, 1959, water-stage recorder at site 2.2 mi (3.5 km) upstream at different datum.

REMARKS.--Records good. Flow completely regulated by Flaming Gorge Reservoir 0.5 mi (0.8 km) upstream beginning Nov. 1, 1962 (see sta 09234400).

AVERAGE DISCHARGE.--30 years, 2,049 ft³/s (58.0 m³/s), 1,485,000 acre-ft/yr (1.83 km³/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft³/s (555 m³/s) June 12, 1957, gage height, 10.60 ft (3.231 m), site and datum then in use; minimum, 2.3 ft³/s (0.065 m³/s) Mar. 20, 22, 27, 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,720 ft³/s (134 m³/s) Nov. 6, gage height, 6.41 ft (1.954 m); minimum daily, 824 ft³/s (23.3 m³/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	3060	2950	1000	3000	1020	1710	889	908	1510	843	1470
2	1860	1710	2410	2140	1250	902	1230	895	967	1450	1260	1990
3	1100	915	3140	2940	1200	1860	869	863	941	1160	895	2010
4	889	915	2700	1490	2200	3340	1150	863	1200	908	1010	1910
5	889	1690	2060	2410	2020	3280	1270	869	1180	1100	1770	1700
6	967	2900	3240	2180	2290	3330	902	1500	1500	1390	1350	1860
7	889	2040	2940	3230	2330	2440	2130	876	1060	1890	1700	1850
8	2120	2050	960	3230	3360	2460	1870	850	1110	1190	1700	1660
9	908	1640	1460	3180	2460	2220	1520	869	1770	1620	2070	1300
10	2690	1270	3410	2830	1950	2670	2190	863	1470	1680	2090	1700
11	2660	902	2770	3040	2990	2400	1450	889	1270	1300	1790	1190
12	2650	1380	2370	2730	2250	2220	1130	869	1530	1580	1880	1360
13	1430	1700	2790	902	3150	1160	1800	876	1400	1060	1880	1550
14	908	1420	1980	1950	2720	908	1960	895	1170	1550	1660	1780
15	928	934	1580	902	2390	908	1700	869	1090	1560	1600	1580
16	1040	1870	863	3070	2530	902	2230	889	1580	850	1510	1580
17	902	895	2830	2190	1600	915	1300	1500	1320	876	1590	1640
18	889	895	1630	3360	1740	895	1530	1390	1160	1460	1780	1830
19	915	2780	1530	1310	3090	1710	895	1940	1030	1150	1360	1840
20	1020	3300	1760	1500	3210	915	882	908	882	1130	1350	1550
21	889	2880	2360	3100	3320	1260	928	1300	889	1340	863	934
22	1670	980	1320	2980	3710	908	1170	1180	915	1420	1830	1800
23	1540	895	1440	1270	2440	908	1230	987	1380	1600	1720	1830
24	941	1590	928	1180	1320	1600	1110	1100	1690	1290	1450	1780
25	921	1020	928	1180	2190	1970	1170	1050	863	1260	1810	1950
26	895	1620	2290	1460	1000	1470	921	1270	941	824	1830	1700
27	1560	3370	1660	994	1500	1840	921	889	1550	1830	1920	1920
28	2730	3390	2620	3060	1580	1400	1130	908	1620	1330	1920	1200
29	3500	3400	1930	3650	1500	876	1950	1100	1100	1660	1980	2040
30	2520	3980	1030	3440	---	876	895	1180	994	1690	1690	1220
31	2030	---	2100	3150	---	2720	---	1140	---	1490	2050	---
TOTAL	46100	57391	63979	71048	66290	52283	41143	32466	36480	42148	50151	49724
MEAN	1487	1913	2064	2292	2286	1687	1371	1047	1216	1360	1618	1657
MAX	3500	3980	3410	3650	3710	3340	2230	1940	1770	1890	2090	2040
MIN	889	895	863	902	1000	876	869	850	863	824	843	934
AC-FT	91440	113800	126900	140900	131500	103700	81610	64400	72360	83600	99470	98630

CAL YR 1979 TOTAL 693982 MEAN 1901 MAX 3980 MIN 863 AC-FT 1377000
WTR YR 1980 TOTAL 609203 MEAN 1664 MAX 3980 MIN 824 AC-FT 1208000

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1956 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1956 to September 1959, October 1963 to current year.
WATER TEMPERATURES: October 1956 to September 1959, October 1963 to current year.
SUSPENDED SEDIMENT DISCHARGE: October 1956 to September 1959.

REMARKS.--Storage in Flaming Gorge Reservoir began on Nov. 1, 1962. Extremes are given for two separate periods--water years 1957-62, and water years 1964 to current year. Extremes for the 1963 water year (October 1962 to September 1963) are not included. Unpublished daily records of specific conductance obtained before 1965 were included in the determination of extremes for period of daily record and are available in the files of Utah district office.

EXTREMES FOR PERIOD OF DAILY RECORD (water years 1957-62, 1964 to current year).--
SPECIFIC CONDUCTANCE (water years 1957-58, 1960-62): Maximum daily, 1,340 micromhos Aug. 30, 1961; minimum daily, 325 micromhos June 2, 1961.
WATER TEMPERATURES (water years 1957-59): Maximum, 24.0°C July 24, 25, 1959; minimum, 0.0°C on many days during winter period each year.
SPECIFIC CONDUCTANCE (water years 1964 to current year): Maximum daily, 1,060 micromhos Nov. 9, 1971; minimum daily, 560 micromhos Mar. 1, 1977.
WATER TEMPERATURES (water years 1964 to current year): Maximum, 14.0°C Nov. 11, 14, 1963, July 17, Aug. 21, 28, 1978, Sept. 24, 1980; minimum, 2.0°C on several days in 1964.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 890 micromhos June 4; minimum daily, 610 micromhos Mar. 20, July 9.
WATER TEMPERATURES: Maximum, 14.0°C Sept. 24; minimum, 3.0°C Jan. 18, Feb. 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT											
11...	1015	4160	700	8.2	12.5	6.8	<1	K4	240	92	58
NOV											
29...	0945	4280	740	7.8	5.5	8.4	<1	K3	270	120	64
DEC											
11...	1600	2440	710	8.1	5.0	8.2	<1	<1	250	100	62
JAN											
17...	1600	2160	700	7.9	4.0	7.6	<1	<1	250	100	62
FEB											
13...	1600	4310	700	7.8	3.0	8.4	<1	<1	280	130	67
MAR											
20...	1515	915	610	7.9	3.5	9.3	<1	<1	260	110	62
APR											
08...	1415	1440	690	7.8	4.0	8.8	<1	<1	270	120	66
MAY											
21...	1530	2220	670	8.1	9.5	9.6	<1	<1	240	110	57
JUN											
26...	1400	871	580	8.0	12.5	8.8	<1	K2	220	97	53
JUL											
15...	1400	2650	640	7.8	13.5	7.6	<1	<1	230	110	55
AUG											
20...	1430	1330	700	7.9	13.0	7.2	<1	<1	230	110	55
SEP											
24...	1400	2650	710	8.0	14.0	7.1	<1	K1	230	100	55

K-Results based on colony count outside the acceptable range (non-ideal colony count).

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT											
11...	24	55	1.5	2.7	180	0	148	200	16	.3	2.7
NOV											
29...	26	59	1.6	2.8	180	0	148	220	20	.3	3.4
DEC											
11...	24	57	1.6	2.5	180	0	148	210	14	.2	3.4
JAN											
17...	23	58	1.6	2.5	180	0	148	220	16	.3	4.0
FEB											
13...	27	64	1.7	2.5	180	0	148	230	15	.2	4.2
MAR											
20...	25	57	1.5	2.8	180	0	148	210	17	.2	4.1
APR											
08...	25	55	1.5	2.5	180	0	150	230	17	.3	4.2
MAY											
21...	23	53	1.5	2.4	160	0	131	190	14	.3	3.7
JUN											
26...	21	48	1.4	2.4	150	0	123	180	15	.2	3.5
JUL											
15...	22	49	1.4	2.4	--	--	120	180	13	.5	3.5
AUG											
20...	22	51	1.5	2.4	--	--	120	190	16	.4	3.3
SEP											
24...	23	53	1.5	3.0	--	--	130	200	17	.3	2.7

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)
OCT										
11...	477	448	.61	5030	.24	.21	.020	.000	.02	.00
NOV										
29...	485	486	.66	5620	.25	.28	.020	.020	.02	.03
DEC										
11...	481	463	.63	3050	.35	.34	.030	.020	.04	.03
JAN										
17...	501	476	.65	2780	.35	.37	.060	.000	.07	.00
FEB										
13...	492	500	.68	5820	.33	.34	.110	.040	.13	.05
MAR										
20...	507	468	.64	1160	.27	.27	.000	.020	.00	.03
APR										
08...	501	491	.67	1910	.29	.29	.100	.000	.12	.00
MAY										
21...	455	423	.58	2540	.18	.19	.080	.060	.10	.08
JUN										
26...	412	398	.54	936	.15	.15	.030	.010	.04	.01
JUL										
15...	408	398	.54	2850	.15	.11	.010	.040	.01	.05
AUG										
20...	431	413	.56	1480	.15	.11	.000	.030	.00	.04
SEP										
24...	451	432	.59	3090	.05	.07	.000	.000	.00	.00

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)
OCT										
11...	.52	.42	.54	.12	.42	.78	.63	3.5	.000	.00
NOV										
29...	.50	.48	.52	.02	.50	.77	.78	3.4	.010	.03
DEC										
11...	.46	.46	.49	.01	.48	.84	.82	3.7	.030	.09
JAN										
17...	.79	.78	.85	.07	.78	1.2	1.2	5.3	.010	.03
FEB										
13...	.54	.46	.65	.15	.50	.98	.84	4.3	.010	.03
MAR										
20...	.56	.67	.56	.00	.69	.83	.96	3.7	.020	.06
APR										
08...	2.3	.73	2.4	1.7	.73	2.7	1.0	12	.010	.03
MAY										
21...	.35	.20	.43	.17	.26	.61	.45	2.7	.020	.06
JUN										
26...	.49	.92	.52	.00	.93	.67	1.1	3.0	.020	.06
JUL										
15...	.58	.44	.59	.11	.48	.74	.59	3.3	.020	.06
AUG										
20...	.46	.46	.46	.00	.49	.61	.60	2.7	.010	.03
SEP										
24...	.58	.31	.58	.27	.31	.63	.38	2.8	.080	.25

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLOROPHYLL RATIO PERIPHYTON (UNITS)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
OCT										
11...	.000	--	7.9	.2	--	.550	.790	182	1.32	.450
NOV										
29...	.010	--	7.3	.0	6400	--	--	--	--	--
DEC										
11...	.010	8.2	--	--	1300	--	--	--	--	--
JAN										
17...	.010	--	--	--	--	--	--	--	--	--
FEB										
13...	.000	--	6.9	.3	--	--	--	--	--	--
MAR										
20...	.010	4.5	--	--	350	--	--	--	--	--
APR										
08...	.030	4.0	--	--	--	.240	.310	1000	.070	.000
MAY										
21...	.010	--	5.6	.4	--	--	--	--	--	--
JUN										
26...	.020	34	--	--	--	1.26	2.05	--	.000	.000
JUL										
15...	.020	5.9	--	--	260	--	--	--	--	--
AUG										
20...	.000	--	9.4	.1	1300	1.81	2.28	395	1.19	.490
SEP										
24...	.050	5.9	--	--	8000	--	--	--	--	--

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
OCT 11...	1015	2	0	2	100	20	80	1	0	2	0
NOV 29...	0945	3	0	3	200	100	80	0	0	<1	0
DEC 11...	1600	--	--	--	--	--	--	--	--	--	--
FEB 13...	1600	2	0	2	200	100	80	0	0	<1	0
MAR 20...	1515	--	--	--	--	--	--	--	--	--	--
MAY 21...	1530	3	0	3	100	20	80	0	0	1	0
JUN 26...	1400	--	--	--	--	--	--	--	--	--	--
AUG 20...	1430	3	0	3	0	0	80	0	--	<1	10
SEP 24...	1400	--	--	--	--	--	--	--	--	--	--

DATE	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
OCT 11...	0	10	0	0	<3	6	4	2	540	530	<10
NOV 29...	0	0	0	0	<3	2	2	0	30	20	<10
DEC 11...	--	--	--	--	--	--	--	--	--	--	--
FEB 13...	0	0	0	0	<3	3	3	0	50	40	<10
MAR 20...	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	0	0	2	2	0	8	6	2	100	80	20
JUN 26...	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	10	0	0	--	<3	10	8	2	70	--	<10
SEP 24...	--	--	--	--	--	--	--	--	--	--	--

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)
OCT											
11...	8	0	56	20	20	<1	.0	.0	.0	0	0
NOV											
29...	4	2	2	0	0	<1	.0	.0	.0	10	8
DEC											
11...	--	--	--	--	--	--	--	--	--	--	--
FEB											
13...	3	3	0	10	9	<1	.0	.0	.0	0	0
MAR											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
21...	4	2	2	0	0	10	.2	.2	.0	4	4
JUN											
26...	--	--	--	--	--	--	--	--	--	--	--
AUG											
20...	9	9	0	10	9	1	.1	.1	.0	5	4
SEP											
24...	--	--	--	--	--	--	--	--	--	--	--

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT										
11...	2	1	0	1	0	0	0	0	0	4
NOV										
29...	2	1	1	0	1	1	0	110	100	8
DEC										
11...	--	--	--	--	0	--	--	--	--	--
FEB										
13...	2	1	0	1	0	0	0	10	3	7
MAR										
20...	--	--	--	--	0	--	--	--	--	--
MAY										
21...	0	1	0	1	0	0	0	20	0	30
JUN										
26...	--	--	--	--	0	--	--	--	--	--
AUG										
20...	1	1	0	1	0	0	0	60	50	6
SEP										
24...	--	--	--	--	0	--	--	--	--	--

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
11...	1015	12.5	4160	18	202	14
DEC						
11...	1600	5.0	2440	3	20	9
JAN						
17...	1600	4.0	2160	3	17	46
MAR						
20...	1515	3.5	915	1	2.5	50
APR						
08...	1415	4.0	1440	9	35	31
MAY						
21...	1530	9.5	2220	14	84	74
JUN						
26...	1400	12.5	871	4	9.4	87
JUL						
15...	1400	13.5	2650	2	14	62
AUG						
20...	1430	13.0	1330	1	3.6	50
SEP						
24...	1400	14.0	2650	4	29	33

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	750	710	---	---	740	---	760	710	---	---	760	---
2	750	700	---	730	---	---	750	700	770	780	---	660
3	740	---	720	740	---	740	780	---	760	620	---	670
4	720	---	720	740	740	740	770	---	670	---	780	680
5	710	740	710	---	740	740	---	710	890	---	650	680
6	---	750	720	---	730	740	---	---	670	---	650	---
7	---	710	720	740	740	740	740	770	---	620	650	---
8	---	740	---	740	740	---	760	680	---	770	660	680
9	750	710	---	740	---	---	770	760	680	610	---	760
10	730	---	720	730	---	740	740	---	780	620	---	690
11	710	---	720	730	730	740	760	---	660	620	660	760
12	720	---	720	---	740	740	---	770	650	---	660	680
13	---	720	720	---	740	740	---	760	650	---	660	---
14	---	710	720	740	740	740	770	770	---	620	660	---
15	750	710	---	740	740	---	760	780	---	630	670	700
16	750	710	---	740	---	---	770	760	660	770	---	680
17	710	---	730	740	---	750	---	---	660	770	---	680
18	710	---	730	740	---	750	---	---	770	770	670	680
19	710	740	720	---	740	750	---	670	780	---	670	680
20	---	710	720	---	740	610	---	770	790	---	760	---
21	---	720	720	740	740	750	740	670	---	780	770	---
22	740	---	---	740	740	---	750	---	---	780	670	680
23	750	740	---	---	---	---	770	760	790	770	---	680
24	740	---	---	740	---	760	770	---	640	790	---	740
25	710	---	---	730	730	750	770	---	780	640	680	740
26	710	720	730	---	740	750	---	---	780	---	680	750
27	---	720	720	---	---	750	---	760	640	---	670	---
28	---	710	720	730	740	750	740	770	---	630	680	---
29	710	720	---	740	740	---	780	770	---	640	680	760
30	710	720	---	740	---	---	780	---	770	650	---	760
31	710	---	730	740	---	760	---	---	---	650	---	---
MEAN	727	721	722	738	738	740	762	741	726	692	685	704

WTR YR 1980 MEAN 724 MAX 890 MIN 610

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	10.5	---	---	4.5	---	4.0	6.0	---	---	13.0	---
2	13.0	10.5	---	4.0	---	---	4.0	5.5	8.5	12.0	---	13.0
3	13.5	---	6.5	4.0	---	4.0	4.0	---	9.0	12.0	---	13.0
4	12.0	---	6.5	4.0	4.0	4.0	4.0	---	9.0	---	13.0	13.0
5	13.0	10.0	6.5	---	4.0	4.0	---	6.0	9.0	---	13.0	13.0
6	---	10.0	6.5	---	4.0	4.0	---	---	10.0	---	13.0	---
7	---	10.0	6.5	4.0	4.0	4.0	4.0	6.5	---	13.0	13.0	---
8	---	10.0	---	4.0	4.0	---	4.0	6.5	---	13.0	13.0	13.0
9	13.0	9.5	---	4.0	---	---	4.0	6.5	10.0	13.0	---	13.0
10	13.0	---	6.5	4.0	---	4.0	---	---	10.0	13.0	---	13.0
11	13.0	---	6.5	4.0	4.0	4.0	4.0	---	10.0	13.0	13.0	13.0
12	12.0	---	5.5	---	4.0	4.0	---	6.5	10.0	---	13.0	13.0
13	---	9.0	5.5	---	4.0	4.0	---	6.5	11.0	---	13.0	---
14	---	9.0	5.5	4.0	4.0	4.0	4.0	6.5	---	13.0	13.0	---
15	13.0	8.5	---	4.0	4.0	---	4.0	6.5	---	13.0	13.0	13.0
16	13.0	8.5	---	4.0	---	---	4.0	7.5	10.5	13.0	---	13.0
17	12.0	---	5.5	4.0	---	4.0	---	---	10.0	13.0	---	13.0
18	13.0	---	5.5	3.0	---	4.0	---	---	10.5	13.0	13.0	13.0
19	12.0	8.0	5.5	---	4.0	4.0	---	7.5	11.0	---	13.0	13.0
20	---	8.0	5.5	---	4.0	4.0	---	7.5	11.0	---	13.0	---
21	---	8.0	5.5	4.0	4.0	4.0	4.5	7.5	---	13.0	13.0	---
22	12.0	---	---	4.0	4.0	---	4.5	---	---	13.0	13.0	13.0
23	12.0	8.0	---	---	---	---	4.5	2.0	11.5	13.0	---	13.0
24	12.0	---	---	4.0	---	4.0	4.5	---	12.0	13.0	---	14.0
25	12.0	---	---	4.0	4.0	4.0	5.5	---	11.5	13.0	13.0	13.0
26	11.0	8.5	5.0	---	4.0	4.0	---	---	11.5	---	13.0	13.0
27	---	8.5	5.0	---	---	4.0	---	8.5	12.0	---	13.0	---
28	---	7.5	5.0	4.0	4.0	4.0	5.5	8.5	---	13.0	13.0	---
29	11.0	7.5	---	4.5	4.0	---	5.5	8.5	---	13.0	13.0	13.0
30	11.0	7.5	---	4.5	---	---	5.5	---	13.0	13.0	---	13.0
31	10.5	---	5.0	4.5	---	4.0	---	---	---	13.0	---	---
MEAN	12.5	9.0	6.0	4.0	4.0	4.0	4.5	6.5	10.5	13.0	13.0	13.0

WTR YR 1980 MEAN 8.5 MAX 14.0 MIN 2.0

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES

DATE	NOV 29,79	DEC 11,79	MAR 20,80	MAY 21,80
TIME	0945	1600	1515	1530
TOTAL CELLS/ML	6400	1300	350	540
DIVERSITY: DIVISION	0.3	1.0	1.0	0.8
.CLASS	0.3	1.1	1.0	0.8
..ORDER	0.0	0.0	1.7	1.4
...FAMILY	0.0	0.0	1.9	1.4
....GENUS	0.0	0.0	1.9	1.4

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....CHLORELLA	35	1	*	0	--	-	--	-
....OOCYSTIS	*	0	150	11	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	*	0	--	-	--	-	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	20	2	--	-	90#	17
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	--	-
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	*	0	--	-	26	7	--	-
..ZYGNEMATALES								
...DESMIDIACEAE								
....STAURASTRUM	*	0	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	*	0	20	2	150#	44	90#	17
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	--	-	--	-	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	*	0	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	120#	33	350#	64
...NAVICULACEAE								
....NAVICULA	--	-	*	0	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....DINOBRYON	66	1	90	7	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE	*	0	10	1	--	-	--	-
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	39	11	13	2
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	13	4	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCA[illegible]								
....ANACYSTIS	6200#	97	970#	74	--	-	--	-
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	40	3	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUTREPTIA	*	0	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	--	-	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM, EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09234500 GREEN RIVER NEAR GREENDALE, UT--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES

DATE	JUN 26,80	JUL 15,80	AUG 20,80	SEP 24,80
TIME	1400	1400	1430	1400
TOTAL CELLS/ML	140	260	1300	8000
DIVERSITY: DIVISION	1.3	0.9	0.5	0.3
.CLASS	1.3	0.9	0.5	0.3
..ORDER	1.3	1.0	0.5	0.4
...FAMILY	1.3	1.0	0.5	0.4
....GENUS	1.3	1.0	0.5	0.4

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	13	9	--	-	--	-	--	-
...OOCYSTACEAE								
....CHLORELLA	--	-	--	-	--	-	--	-
....OOCYSTIS	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	--	-	--	-	--	-	--	-
..TETRASPORALES								
...COCCOMYXACEAE								
....ELAKATOTHRIX	--	-	--	-	--	-	--	-
...PALMELLACEAE								
....SPHAEROCYSTIS	--	-	--	-	--	-	210	3
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	--	-	26	2	*	0
..ZYGNEMATALES								
...DESMIDIACEAE								
....STAURASTRUM	--	-	--	-	--	-	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	100#	73	13	5	13	1	*	0
..PENNALES								
...ACHNANTHACEAE								
....COCCONEIS	--	-	26	10	--	-	--	-
...DIATOMACEAE								
....DIATOMA	--	-	--	-	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	--	-	--	-
...NAVICULACEAE								
....NAVICULA	--	-	--	-	--	-	--	-
.CHRYSOPHYCEAE								
..CHRYSOMONADALES								
...OCHROMONADACEAE								
....DINOBRYON	--	-	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE	--	-	--	-	--	-	--	-
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	13	9	13	5	39	3	140	2
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	26	2	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	1200#	92	7600#	95
..HORMOGONALES								
...NOSTOCACEAE								
....ANABAENA	--	-	--	-	--	-	--	-
...OSCILLATORIACEAE								
....OSCILLATORIA	--	-	210#	80	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUTREPTIA	--	-	--	-	--	-	--	-
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..PERIDINIALES								
...GLENODINIACEAE								
....GLENODINIUM	13	9	--	-	--	-	*	0

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

09235300 VERMILLION CREEK NEAR HIAWATHA, CO

LOCATION.--Lat 41°00'54", long 108°38'39", in NE¼SE¼NE¼ sec.15, T.12 N., R.100 W., Sweetwater County, WY, Hydrologic Unit 14040109, on right bank 0.7 mi (1.1 km) upstream from county road, 0.9 mi (1.4 km) downstream from Alkali Creek, 1.8 mi (2.9 km) upstream from Horseshoe Wash, 1.9 mi (3.1 km) upstream from the Wyoming-Colorado State line, 2.3 mi (3.7 km) northwest of Hiawatha, CO, and 49 mi (79 km) southwest of Rock Springs, WY.

DRAINAGE AREA.--196 mi^2 (508 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,610 ft (2,015 m), from topographic map.

REMARKS.--Records poor. No gage-height record July 25 to Sept. 2. No diversion above station.

AVERAGE DISCHARGE.--5 years, 3.48 ft^3/s (0.099 m^3/s), 2,520 acre-ft/yr (3.11 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,160 ft^3/s (32.9 m^3/s) Sept. 7, 1978, gage height, 7.71 ft (2.350 m), from rating curve extended above 16 ft^3/s (0.45 m^3/s) on basis of slope-area measurements at gage heights of 3.03 ft (0.924 m), 6.52 ft (1.987 m), and 7.71 ft (2.350 m); no flow for many days during most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 847 ft^3/s (24.0 m^3/s) May 7, gage height, 6.97 ft (2.124 m); minimum daily, 0.31 ft^3/s (0.009 m^3/s) Jan. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	.86	.95	.55	.53	1.1	.95	16	26	4.0	2.1	1.9
2	.69	.90	1.1	.66	.64	1.0	1.0	15	21	4.8	3.0	1.8
3	.85	1.0	1.2	.74	.72	1.1	1.1	14	20	6.7	2.5	1.8
4	.85	1.2	1.3	.83	.67	1.0	1.3	19	22	5.3	2.2	1.8
5	.79	1.3	1.4	.87	.63	.90	1.6	32	24	5.3	2.5	1.7
6	.79	1.4	1.6	.80	.58	.80	1.8	24	22	4.8	2.7	1.7
7	.74	1.4	1.8	.69	.54	.68	1.7	153	19	4.2	2.5	1.7
8	.74	1.3	1.8	.71	.58	.58	1.8	37	15	3.8	2.2	1.6
9	.74	1.2	1.9	.73	.66	.70	2.1	11	14	3.2	2.0	1.4
10	.69	1.1	1.7	.69	.75	1.0	2.0	14	12	2.9	2.1	3.7
11	.69	1.1	1.4	.76	.80	2.0	3.5	13	11	3.1	2.0	2.7
12	.69	1.0	1.1	.84	.70	1.0	7.0	22	9.8	3.4	1.9	2.2
13	.74	1.0	.85	.93	.60	1.1	10	19	9.4	3.1	2.3	2.0
14	.74	1.1	.75	1.0	.61	1.4	20	14	9.0	2.6	3.0	1.7
15	.74	1.2	.65	1.0	.70	1.5	30	13	7.6	2.6	3.6	1.7
16	.74	1.3	.55	.90	.77	1.4	33	23	8.3	2.2	4.5	1.6
17	.79	1.2	.45	.80	.90	1.2	29	22	7.3	2.0	5.2	1.5
18	.91	1.2	.43	.70	1.5	1.1	38	18	5.9	2.0	4.5	1.5
19	.91	1.1	.43	.70	2.5	.94	114	17	5.9	2.0	3.5	1.6
20	1.3	1.1	.45	.80	3.5	1.0	163	17	6.2	2.0	3.7	1.8
21	1.2	.95	.45	.90	2.5	1.0	172	17	5.6	2.1	3.1	1.7
22	.95	.85	.42	.80	1.8	.95	113	23	5.6	2.1	2.4	1.6
23	1.1	.90	.38	.70	1.3	.95	61	29	5.0	2.1	2.2	1.6
24	1.2	.95	.36	.65	1.0	1.0	58	33	5.3	42	2.4	1.6
25	1.4	.90	.34	.60	1.2	1.1	27	29	5.9	6.0	2.8	1.5
26	1.2	.85	.33	.50	1.3	1.0	21	24	5.3	3.0	3.5	1.5
27	1.1	.80	.32	.40	1.4	.95	14	21	5.6	2.5	2.7	1.5
28	1.1	.75	.35	.35	1.3	1.1	11	21	5.0	2.1	2.2	1.6
29	1.0	.80	.38	.31	1.2	1.0	13	25	4.6	1.9	1.9	1.6
30	.95	.85	.43	.35	---	1.1	16	28	4.0	1.9	1.8	1.5
31	.90	---	.50	.42	---	1.0	---	26	---	2.0	1.8	---
TOTAL	27.87	31.56	26.07	21.68	31.88	32.65	968.85	789	327.3	137.7	84.8	53.1
MEAN	.90	1.05	.84	.70	1.10	1.05	32.3	25.5	10.9	4.44	2.74	1.77
MAX	1.4	1.4	1.9	1.0	3.5	2.0	172	153	26	42	5.2	3.7
MIN	.64	.75	.32	.31	.53	.58	.95	11	4.0	1.9	1.8	1.4
AC-FT	55	63	52	43	63	65	1920	1560	649	273	168	105

CAL YR 1979 TOTAL 1285.64 MEAN 3.52 MAX 196 MIN .00 AC-FT 2550
WTR YR 1980 TOTAL 2532.46 MEAN 6.92 MAX 172 MIN .31 AC-FT 5020

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT											
03...	1405	--	.79	1500	--	15.5	3	--	--	--	--
23...	1745	1.1	--	1580	8.4	5.0	--	10.2	5.4	490	160
NOV											
08...	1025	1.3	--	1180	--	.0	--	--	--	--	--
DEC											
01...	1040	.95	--	1850	7.9	.0	--	11.4	2.4	600	120
05...	1015	1.4	--	1600	--	.5	90	--	--	--	--
19...	1020	.43	--	1950	8.2	.0	25	9.4	.8	610	98
JAN											
08...	1045	.71	--	1800	8.2	.0	35	10.3	.9	560	89
FEB											
11...	1135	.80	--	1650	8.4	.0	--	11.2	1.1	500	47
MAR											
11...	1030	2.0	--	1400	8.8	.0	600	10.6	3.5	510	240
APR											
16...	1330	--	33	900	8.3	8.5	3800	8.7	6.4	250	150
23...	1005	--	75	960	--	7.0	10200	--	--	--	--
MAY											
07...	1330	--	28	1300	8.2	8.0	4000	8.4	4.6	730	350
JUN											
06...	1150	--	19	950	8.2	14.0	550	7.8	1.4	360	45
JUL											
08...	1055	--	3.6	1300	8.3	19.5	200	6.8	1.4	420	85
AUG											
06...	1550	--	2.6	1300	8.5	27.0	90	6.7	1.3	360	43
SEP											
02...	1430	--	2.0	1400	8.4	22.5	60	7.0	1.8	420	110
12...	1030	--	2.4	1350	--	12.0	--	--	--	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
23...	90	64	190	3.7	3.8	330	520	24	.3	11	1100
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	110	80	240	4.3	4.7	480	620	30	.4	15	1390
05...	--	--	--	--	--	--	--	--	--	--	--
19...	110	81	240	4.2	5.0	510	550	30	.3	16	1340
JAN											
08...	100	75	220	4.1	3.6	470	500	28	.3	16	1230
FEB											
11...	87	68	200	3.9	3.1	450	450	27	.2	16	1120
MAR											
11...	110	57	160	3.1	5.0	270	480	18	.3	18	1010
APR											
16...	54	27	87	2.4	3.4	100	310	9.5	.3	7.2	559
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	160	80	250	4.0	5.8	380	870	30	.3	8.4	1630
JUN											
06...	68	45	100	2.3	3.4	310	220	10	.2	15	649
JUL											
08...	69	59	160	3.4	5.5	330	350	19	.4	19	882
AUG											
06...	58	53	140	3.2	5.0	320	300	15	.4	14	778
SEP											
02...	71	58	160	3.4	4.6	310	440	16	.3	13	950
12...	--	--	--	--	--	--	--	--	--	--	--

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)
OCT											
03...	--	--	--	--	--	--	--	--	--	--	--
23...	1.50	3.27	.12	.030	.04	1.5	1.5	1.6	7.2	.690	2.1
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	1.89	3.57	.47	.090	.11	3.6	3.7	4.2	18	.080	.25
05...	--	--	--	--	--	--	--	--	--	--	--
19...	1.82	1.56	.30	.050	.06	.55	.60	.90	4.0	.040	.12
JAN											
08...	1.67	2.36	.19	.110	.13	.87	.98	1.2	5.2	.070	.21
FEB											
11...	1.52	2.42	.22	.000	.00	.51	.51	.73	3.2	.100	.31
MAR											
11...	1.37	5.45	.23	.220	.27	2.9	3.1	3.3	15	2.100	6.4
APR											
16...	.76	49.8	.42	--	--	--	--	--	--	6.900	21
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	2.22	123	1.5	.120	.15	20	20	22	95	4.700	14
JUN											
06...	.88	33.3	.06	.010	.01	2.0	2.0	2.1	9.1	.910	2.8
JUL											
08...	1.20	8.57	.01	.000	.00	.80	.80	.81	3.6	.240	.74
AUG											
06...	1.06	5.46	.00	.030	.04	1.3	1.3	1.3	5.8	.310	.95
SEP											
02...	1.29	5.13	.00	.000	.00	1.0	1.0	1.0	4.4	.140	.43
12...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)
OCT												
23...	1745	2500	2500	30	7	6	1	0	0	<1	140	1
DEC												
01...	1040	--	--	--	--	--	--	--	--	--	180	--
19...	1020	--	--	--	--	--	--	--	--	--	480	--
JAN												
08...	1045	1300	--	--	--	--	--	0	--	--	170	0
FEB												
11...	1135	--	--	--	--	--	--	--	--	--	150	--
MAR												
11...	1030	--	--	--	--	--	--	--	--	--	130	--
APR												
16...	1330	22000	--	--	30	--	--	10	--	--	150	2
MAY												
07...	1330	--	--	--	--	--	--	--	--	--	190	--
JUN												
06...	1150	--	--	--	--	--	--	--	--	--	140	--
JUL												
08...	1055	470	--	--	3	--	--	0	--	--	180	0
AUG												
06...	1550	--	--	--	--	--	--	--	--	--	170	--
SEP												
02...	1430	--	--	--	--	--	--	--	--	--	180	--

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)
OCT												
23...	0	<1	10	10	0	32	32	0	24000	--	20	15
DEC												
01...	--	--	--	--	--	--	--	--	--	--	170	--
19...	--	--	--	--	--	--	--	--	--	--	30	--
JAN												
08...	--	--	0	--	--	4	--	--	1400	1400	30	7
FEB												
11...	--	--	--	--	--	--	--	--	--	--	50	--
MAR												
11...	--	--	--	--	--	--	--	--	--	--	2900	--
APR												
16...	--	--	150	--	--	170	--	--	170000	170000	130	140
MAY												
07...	--	--	--	--	--	--	--	--	--	--	50	--
JUN												
06...	--	--	--	--	--	--	--	--	--	--	460	--
JUL												
08...	--	--	10	--	--	6	--	--	6900	5300	1600	4
AUG												
06...	--	--	--	--	--	--	--	--	--	--	110	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	110	--

DATE	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI)	LITHIUM SUS-PENDED RECOV-ERABLE (UG/L AS LI)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
OCT												
23...	15	0	100	50	50	920	890	30	.1	.1	.0	4
DEC												
01...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
08...	--	--	60	--	--	130	--	--	.0	--	--	6
FEB												
11...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
11...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
16...	--	--	220	--	--	6900	--	--	.2	--	--	4
MAY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
06...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	--	--	60	--	--	230	--	--	.1	--	--	8
AUG												
06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
02...	--	--	--	--	--	--	--	--	--	--	--	--

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 23...	0	11	25	25	0	1	0	1	<1.0	80	80	<3
DEC 01...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 08...	--	--	4	--	--	1	--	--	--	--	--	--
FEB 11...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 11...	--	--	--	--	--	--	--	--	--	--	--	--
APR 16...	--	--	190	--	--	5	--	--	--	710	--	--
MAY 07...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 06...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	4	--	--	1	--	--	--	40	--	--
AUG 06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 02...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)
DEC 01...	1040	<21	2.7	12	2.8	12	2.9	.09	12	<14	1.8

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANECUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM
OCT 03...	1405	15.5	--	.79	10	.02	--	--	--
NOV 08...	1025	.0	1.3	--	350	1.2	--	--	--
DEC 05...	1015	.5	1.4	--	147	.56	--	--	--
19...	1020	.0	.43	--	186	.22	--	--	--
JAN 08...	1045	.0	.71	--	186	.36	--	--	--
FEB 11...	1135	.0	.80	--	215	.46	--	--	--
MAR 11...	1030	.0	2.0	--	1660	9.0	69	90	--
APR 16...	1330	8.5	--	33	9130	813	47	73	95
23...	1005	7.0	--	75	5540	1120	43	65	86
MAY 07...	1330	8.0	--	28	11600	877	39	61	92
JUN 06...	1150	14.0	--	19	1600	82	40	64	88
JUL 08...	1055	19.5	--	3.6	280	2.7	--	--	--
AUG 06...	1550	27.0	--	2.6	498	3.5	--	--	--
SEP 02...	1430	22.5	--	2.0	215	1.2	--	--	--
12...	1030	12.0	--	2.4	839	5.4	--	--	--

09235300 VERMILLION CREEK NEAR HIAWATHA, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM
OCT									
03...	--	--	--	--	--	--	--	--	--
NOV									
08...	--	--	--	--	--	--	--	--	--
DEC									
05...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
JAN									
08...	--	--	--	--	--	--	--	--	--
FEB									
11...	--	--	--	--	--	--	--	--	--
MAR									
11...	--	--	--	--	99	99	100	--	--
APR									
16...	99	100	--	--	--	--	--	--	--
23...	92	96	99	100	--	--	--	--	--
MAY									
07...	98	100	--	--	--	--	--	--	--
JUN									
06...	95	100	--	--	--	--	--	12	1
JUL									
08...	--	--	--	--	--	--	--	--	--
AUG									
06...	--	--	--	--	--	--	--	--	--
SEP									
02...	--	--	--	--	--	--	--	9	3
12...	--	--	--	--	--	--	--	--	--

DATE	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
OCT									
03...	--	--	--	--	--	--	--	--	--
NOV									
08...	--	--	--	--	--	--	--	--	--
DEC									
05...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
JAN									
08...	--	--	--	--	--	--	--	--	--
FEB									
11...	--	--	--	--	--	--	--	--	--
MAR									
11...	--	--	--	--	--	--	--	--	--
APR									
16...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
MAY									
07...	--	--	--	--	--	--	--	--	--
JUN									
06...	2	17	38	41	54	71	88	96	100
JUL									
08...	--	--	--	--	--	--	--	--	--
AUG									
06...	--	--	--	--	--	--	--	--	--
SEP									
02...	4	8	18	26	34	46	78	100	--
12...	--	--	--	--	--	--	--	--	--

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO

LOCATION.--Lat 40°59'58", long 107°08'34", in SW¼NW¼ sec.15, T.12 N., R.87 W., Routt County, Hydrologic Unit 14050003, on left bank just downstream from highway bridge at Focus Ranch, 0.2 mi (0.3 km) downstream from Spring Creek, and 12 mi (19 km) east of Slater.

DRAINAGE AREA.--285 mi^2 (738 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1942 to September 1947, October 1950 to current year.

REVISED RECORDS.--WSP 1733: 1960.

GAGE.--Water-stage recorder. Datum of gage is 6,831.00 ft (2,082.089 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for winter period, which are poor. Diversions for irrigation of about 2,000 acres (8.09 km^2) above station.

AVERAGE DISCHARGE.--35 years, 227 ft^3/s (6.429 m^3/s), 164,500 acre-ft/yr (203 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,180 ft^3/s (118 m^3/s) Apr. 25, 1974, gage height, 8.95 ft (2.728 m), from recorded range in stage; minimum daily, 8.6 ft^3/s (0.24 m^3/s) Sept. 10, 1944.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,600 ft^3/s (45 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 24	0200	*2,610	73.9	7.56	2.304	June 12	0200	1,790	50.7	6.69	2.039
June 6	0200	1,880	53.2	6.73	2.051						

Minimum daily discharge, 9.9 ft^3/s (0.28 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	40	34	26	23	27	30	804	1320	412	43	23
2	28	37	33	29	23	28	27	838	1270	597	38	22
3	16	41	32	30	23	29	23	941	1290	440	36	19
4	16	37	31	29	23	28	23	947	1490	333	32	16
5	16	30	30	28	22	28	23	953	1660	271	28	16
6	16	33	30	26	23	29	23	1180	1700	231	26	16
7	16	33	31	27	24	30	20	1260	1640	210	25	17
8	16	32	30	27	22	29	23	1400	1590	264	24	20
9	16	28	32	28	26	28	19	1330	1580	196	24	27
10	16	30	33	25	25	27	21	1340	1560	168	26	29
11	17	30	34	23	24	28	20	1480	1560	145	21	34
12	18	32	38	25	23	30	19	1310	1590	133	20	60
13	19	30	30	29	22	28	19	854	1490	139	21	66
14	19	29	30	32	22	27	21	721	1360	127	21	34
15	18	30	29	34	24	27	28	762	1200	110	68	26
16	25	27	28	32	25	33	36	839	958	95	56	25
17	29	28	27	30	24	39	41	992	1070	86	41	23
18	31	28	27	28	24	40	54	816	1050	87	28	21
19	33	28	27	27	27	41	82	984	1000	104	22	20
20	46	29	27	25	26	40	116	1140	934	83	23	29
21	47	30	28	26	26	40	175	1390	918	78	22	34
22	37	31	28	25	26	39	245	1910	853	71	20	29
23	29	32	27	24	26	38	306	2030	788	66	19	28
24	37	33	28	24	26	35	410	2080	730	60	21	27
25	40	34	27	24	27	33	399	1730	680	60	23	26
26	49	34	26	24	27	33	433	1450	654	61	34	26
27	45	35	25	23	27	34	492	1450	587	52	28	26
28	33	35	24	23	28	32	546	1530	506	47	21	26
29	39	35	24	23	28	30	662	1550	445	40	18	26
30	25	34	25	23	---	30	819	1390	428	39	16	25
31	25	---	26	26	---	30	---	1380	---	52	19	---
TOTAL	844	965	901	825	716	990	5155	38781	33901	4857	864	816
MEAN	27.2	32.2	29.1	26.6	24.7	31.9	172	1251	1130	157	27.9	27.2
MAX	49	41	38	34	28	41	819	2080	1700	597	68	66
MIN	16	27	24	23	22	27	19	721	428	39	16	16
AC-FT	1670	1910	1790	1640	1420	1960	10220	76920	67240	9630	1710	1620

CAL YR 1979 TOTAL 99772 MEAN 273 MAX 2480 MIN 16 AC-FT 197900
WTR YR 1980 TOTAL 89615 MEAN 245 MAX 2080 MIN 16 AC-FT 177800

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT								
25...	1515	28	--	--	7.5	--	73	0
DEC								
19...	1400	27	--	--	--	--	78	0
FEB								
05...	1200	22	--	--	.0	--	88	0
MAR								
17...	1500	39	--	--	.5	--	79	0
MAY								
06...	1100	1020	--	--	4.0	--	36	6
JUN								
16...	1135	1060	--	--	8.0	--	25	0
SEP								
08...	1030	18	205	7.2	12.0	7.0	72	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT									
25...	22	4.4	10	.5	1.5	92	0	75	15
DEC									
19...	24	4.4	14	.7	1.8	100	0	82	16
FEB									
05...	23	7.5	17	.8	1.8	110	0	90	22
MAR									
17...	25	4.3	11	.5	1.5	100	0	82	14
MAY									
06...	10	2.4	3.4	.3	2.0	36	0	30	8.2
JUN									
16...	8.4	1.0	1.7	.1	.6	35	0	29	.0
SEP									
08...	20	5.0	12	.6	.6	100	0	82	12

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT								
25...	3.8	.2	19	121	.16	9.15	.00	.060
DEC								
19...	4.6	.2	21	135	.18	9.84	.05	.020
FEB								
05...	4.5	.2	22	153	.21	9.09	.15	.030
MAR								
17...	3.3	.3	20	130	.18	13.7	.07	.020
MAY								
06...	.6	.2	12	57	.08	157	.21	.210
JUN								
16...	.4	.2	10	39	.05	111	.02	.020
SEP								
08...	4.7	.2	9.9	110	.15	5.35	.00	.030

09253000 LITTLE SNAKE RIVER NEAR SLATER, CO--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)	2,4-DP IN BOTTOM MATERIL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT											
25...	1515	28	7.5	.00	0	.00	.0	.00	0	.00	.0
JUN											
25...	1300	670	11.5	.00	0	.00	.0	.00	0	.00	.0
SEP											
08...	1030	18	12.0	.00	0	.00	.0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA-TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA-TERIAL (UG/KG)
OCT				
25...	.00	.0	.03	.0
JUN				
25...	.00	.0	.00	.0
SEP				
08...	.00	.0	.00	.0

09255000 SLATER FORK NEAR SLATER, CO

LOCATION.--Lat 40°58'57", long 107°22'56", in SW¼NE¼ sec.21, T.12 N., R.89 W., Moffat County, Hydrologic Unit 14050003, on right bank 15 ft (5 m) downstream from highway bridge, 1.0 mi (1.6 km) upstream from mouth, and 1.5 mi (2.4 km) south of Slater.

DRAINAGE AREA.--161 mi^2 (417 km^2).

PERIOD OF RECORD.--May to October, December 1910, March to October 1911, and April to May 1912 (published as Slater Creek), July 1931 to current year. Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 618: 1910-11. WSP 764: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,600 ft (2,012 m), from river profile map. May 28, 1910, to May 25, 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at different datum. July 9, 1931, to May 6, 1932, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum.

REMARKS.--Records good except those for winter period and period of no gage-height record, Feb. 11 to Mar. 17, which are fair. Diversions for irrigation of about 500 acres (2.02 km^2) above station.

AVERAGE DISCHARGE.--49 years (water years 1932-80), 74.3 ft^3/s (2.104 m^3/s), 53,830 acre-ft/yr (66.4 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft^3/s (52.7 m^3/s) May 8, 1974, gage height, 10.75 ft (3.277 m), from peak indicator; maximum gage height, 10.98 ft (3.347 m) May 28, 1979, from floodmark; no flow Aug. 2-10, 1934, Aug. 18, 25-27, 1936, Aug. 29 to Sept. 3, 1954, Aug. 3, 4, 15, 16, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 430 ft^3/s (12 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 24	1000	*1,170	33.1	10.23	3.118

Minimum daily discharge, 3.2 ft^3/s (0.091 m^3/s) Aug. 4, 5, 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	20	22	19	23	22	33	500	389	75	4.3	8.4
2	11	19	21	21	23	21	25	520	380	62	4.0	7.0
3	8.2	18	21	22	22	22	24	510	359	56	3.6	5.7
4	6.1	18	20	24	22	22	24	490	330	52	3.2	6.0
5	6.5	17	20	25	20	22	29	480	280	44	3.2	7.0
6	6.4	17	20	24	22	22	37	470	256	34	3.3	9.0
7	7.0	20	20	21	22	22	45	550	240	36	3.4	12
8	7.0	20	23	21	21	21	49	580	230	36	3.2	18
9	7.0	24	22	22	23	22	61	620	234	34	3.3	21
10	7.7	25	21	25	21	21	83	650	230	29	3.4	26
11	7.8	24	20	21	20	21	107	780	224	22	3.4	35
12	8.4	23	20	21	20	20	146	646	220	19	3.6	43
13	9.0	22	19	20	20	21	227	444	220	18	3.7	41
14	8.8	21	19	19	21	20	230	360	220	17	3.6	29
15	8.9	20	18	20	21	20	253	393	220	15	6.0	14
16	12	19	18	21	21	20	223	458	220	15	14	13
17	16	19	17	20	22	20	232	538	224	13	15	11
18	20	20	17	20	23	22	245	395	236	11	8.5	10
19	20	20	17	21	23	25	271	452	237	10	5.3	13
20	20	20	18	21	22	26	279	560	222	8.8	5.5	16
21	20	21	19	21	22	33	364	662	211	8.2	6.1	15
22	19	20	20	21	22	33	355	950	193	8.5	5.6	15
23	20	17	20	21	22	24	345	1110	182	8.5	5.3	15
24	21	20	18	20	22	24	375	1020	168	8.5	6.2	15
25	20	19	19	21	23	25	406	851	149	7.9	12	15
26	19	20	19	20	23	23	392	896	140	7.0	16	14
27	20	20	19	21	23	28	460	748	132	6.7	12	14
28	21	19	19	23	23	34	440	668	95	6.7	8.2	14
29	21	17	19	26	23	28	460	570	100	6.4	5.0	14
30	22	20	19	26	---	21	480	480	94	5.8	4.0	14
31	21	---	19	24	---	27	---	402	---	5.2	3.5	---
TOTAL	432.8	599	603	672	635	732	6700	18753	6635	686.2	187.4	490.1
MEAN	14.0	20.0	19.5	21.7	21.9	23.6	223	605	221	22.1	6.05	16.3
MAX	22	25	23	26	23	34	480	1110	389	75	16	43
MIN	6.1	17	17	19	20	20	24	360	94	5.2	3.2	5.7
AC-FT	858	1190	1200	1330	1260	1450	13290	37200	13160	1360	372	972

CAL YR 1979 TOTAL 36693.7 MEAN 101 MAX 780 MIN 4.6 AC-FT 72780
WTR YR 1980 TOTAL 37125.5 MEAN 101 MAX 1110 MIN 3.2 AC-FT 73640

GREEN RIVER BASIN

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY

LOCATION.--Lat 41°01'42", long 107°32'55", in SE¼NW¼ sec.8, T.12 N., R.90 W., Carbon County, Hydrologic Unit 14050003, on left bank 200 ft (61 m) upstream from highway bridge, 1,000 ft (305 m) upstream from Willow Creek, and 0.8 mi (1.3 km) west of Dixon.

DRAINAGE AREA.--988 mi^2 (2,559 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1910 to September 1923, March 1938 to current year (no winter records since 1971). Monthly discharge only for some periods, published in WSP 1313.

REVISED RECORDS.--WSP 1243: 1920(M).

GAGE.--Water-stage recorder. Datum of gage is 6,331.22 ft (1,929.756 m), National Geodetic Vertical Datum of 1929. May 27, 1910, to Sept. 30, 1923, nonrecording gage on highway bridge 200 ft (61 m) downstream at datum 2.98 ft (0.908 m) higher. Mar. 15, 1938, to Sept. 30, 1957, water-stage recorder at site 225 ft (69 m) downstream at datum 2.98 ft (0.908 m) higher; Oct. 1, 1957, to June 6, 1968, at site 850 ft (259 m) downstream at present datum, and June 7 to Sept. 30, 1968, at site 225 ft (69 m) downstream at present datum.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 25 to May 12, Aug. 13 to Sept. 30, which are poor. Diversions for irrigation of about 9,500 acres (38.4 km^2) above station. One diversion above station for irrigation of about 3,000 acres (12.1 km^2) below. Transbasin diversions above station.

AVERAGE DISCHARGE.--46 years (water years 1911-23, 1939-71), 514 ft^3/s (14.56 m^3/s), 372,400 acre-ft/yr (459 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 9,600 ft^3/s (272 m^3/s) May 26, 1920, gage height, 11.6 ft (3.54 m), present datum; maximum gage height, 11.74 ft (3.578 m) May 30, 1971; no flow Sept. 19, 20, 22, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,200 ft^3/s (90.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 11	unknown	a4,900	139	--	--
May 24	1000	*5,800	164	10.95	3.338

a-About.

Minimum daily discharge during period of operation, 0.16 ft^3/s (0.005 m^3/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1						100	1710	2740	685	3.5	.23
2	.50						115	1820	2540	890	3.5	.24
3	.32						135	1920	2500	912	3.2	.26
4	.19						155	2000	2770	695	3.2	.22
5	.19						180	2100	3070	565	3.2	.21
6	.16						205	2150	2960	442	2.4	.20
7	.23						240	2500	2930	370	1.4	.19
8	.17						270	3000	2730	392	.56	.19
9	.17						305	3550	2710	343	.42	.18
10	.20						330	4350	2710	265	.30	.18
11	.20						340	4900	2690	185	.23	.18
12	.25						330	4780	2820	118	.20	.18
13	.38						345	2930	2650	109	.20	.21
14	.38						395	2240	2420	106	.24	.29
15	.48						435	2170	2170	83	.34	.34
16	1.5						480	2280	1940	52	.47	.29
17	4.2						540	2750	1960	23	.66	.25
18	11						600	2450	1750	20	.50	.23
19	28						650	2580	1610	16	.40	.22
20	59						710	2780	1480	12	.35	.20
21	111						790	3130	1300	10	.32	.19
22	105						880	3980	1190	12	.30	.18
23	90						970	4690	1090	10	.28	.19
24	80						1080	4910	990	9.8	.27	.20
25	88						1180	4010	960	7.2	.25	.21
26	79						1280	3070	948	7.6	.26	.20
27	72						1380	2800	906	7.2	.30	.19
28	66						1450	2970	800	6.8	.35	.18
29	68						1540	3050	710	4.8	.31	.17
30	77						1620	2940	680	4.4	.28	.17
31	88						---	2940	---	3.7	.25	---
TOTAL	1032.62						19030	93450	58724	6366.5	28.44	6.37
MEAN	33.3						634	3015	1957	205	.92	.21
MAX	111						1620	4910	3070	912	3.5	.34
MIN	.16						100	1710	680	3.7	.20	.17
AC-FT	2050						37750	185400	116500	12630	56	13

09257000 LITTLE SNAKE RIVER NEAR DIXON, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT				
25...	1345	85	45	10
MAR				
18...	1000	93	24	6.0
JUN				
18...	1130	E1750	116	--
AUG				
13...	1330	5.0	38	.51

E-Estimate.

09258000 WILLOW CREEK NEAR DIXON, WY

LOCATION.--Lat 40°54'56", long 107°31'16", on line between secs.8 and 17, T.11 N., R.90 W., Moffat County, CO, Hydrologic Unit 14050003, on right bank 6.2 mi (10.0 km) south of Colorado-Wyoming State line, 8.0 mi (12.9 km) upstream from mouth, and 8.3 mi (13.4 km) south of Dixon.

DRAINAGE AREA.--24 mi^2 (62 km^2), approximately.

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,700 ft (2,042 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. One small ditch diverts water above station for irrigation. Regulation by Elk Lake, capacity, 400 acre-ft (493,000 m^3).

AVERAGE DISCHARGE.--27 years, 9.71 ft^3/s (0.275 m^3/s), 7,030 acre-ft/yr (8.67 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 319 ft^3/s (9.03 m^3/s) Apr. 25, 1974, gage height, 5.42 ft (1.652 m), from rating curve extended above 160 ft^3/s (4.5 m^3/s); no flow Sept. 17-19, 1955, and for many days July to September 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 70 ft^3/s (2.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 21	1800	*255	7.22	5.18	1.579
May 12	0100	185	5.24	4.74	1.445
May 17	2200	157	4.45	4.54	1.384

Minimum daily discharge, 0.86 ft^3/s (0.024 m^3/s) Sept. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	1.8	3.3	5.1	4.7	4.1	3.1	41	18	15	5.8	1.9
2	1.4	1.8	3.4	5.1	4.5	4.0	3.1	35	17	26	6.0	1.6
3	1.4	1.8	3.5	5.1	4.4	3.9	3.1	36	20	16	5.4	1.5
4	1.4	1.8	3.6	5.1	4.4	3.8	3.0	36	28	8.7	5.3	1.5
5	1.4	1.8	3.6	5.1	3.7	3.7	3.1	32	37	6.3	5.1	1.5
6	1.5	1.8	3.7	5.1	3.6	3.6	3.1	34	40	4.8	4.7	.93
7	1.6	1.9	3.7	5.1	3.5	3.5	3.2	36	41	4.3	2.4	.86
8	1.6	1.9	3.7	5.1	3.3	3.4	3.3	46	37	4.2	1.5	1.5
9	1.6	1.9	3.8	4.9	3.2	3.3	3.3	40	37	3.3	1.5	1.7
10	1.6	1.9	3.8	4.8	3.3	3.1	3.4	49	38	2.8	1.5	1.8
11	2.0	2.0	3.9	4.6	3.3	3.0	3.5	90	42	2.1	1.5	2.9
12	1.7	2.0	3.9	4.6	3.3	2.9	3.5	87	52	1.9	1.5	2.7
13	1.7	2.0	3.8	4.6	3.3	2.9	4.0	35	47	2.4	1.6	4.3
14	1.7	2.1	3.8	4.6	3.4	2.9	7.6	24	39	3.4	1.6	2.1
15	1.7	2.1	3.9	4.6	3.6	2.9	15	17	33	3.0	4.3	1.6
16	1.8	2.1	3.9	4.6	3.7	2.9	17	20	26	2.7	4.7	1.4
17	1.8	2.2	3.9	4.6	3.8	2.8	22	87	23	3.3	3.1	1.4
18	1.8	2.2	3.9	4.6	3.9	4.2	39	43	39	7.5	2.2	1.4
19	1.8	2.3	4.0	4.6	4.0	4.2	56	34	41	7.3	1.8	1.4
20	1.9	2.3	4.0	4.6	4.1	4.1	74	25	36	7.1	2.1	2.4
21	1.9	2.4	4.0	4.6	4.2	4.1	115	27	37	7.0	2.0	2.6
22	1.9	2.5	4.1	4.7	4.2	4.1	102	35	35	7.0	1.7	1.9
23	1.9	2.6	4.2	4.7	4.3	4.0	89	49	35	6.8	1.7	1.8
24	1.9	2.7	4.3	4.8	4.3	3.9	77	50	34	6.8	3.1	1.8
25	1.9	2.8	4.4	5.0	4.3	3.8	54	32	30	7.0	2.6	1.7
26	1.9	2.8	4.5	5.1	4.3	3.7	47	18	30	6.8	4.3	1.7
27	1.9	3.0	4.6	5.1	4.2	3.5	44	18	27	6.6	2.7	1.7
28	1.8	3.1	4.7	5.1	4.2	3.4	49	22	17	4.7	1.9	1.6
29	1.8	3.1	4.8	5.0	4.1	3.3	53	25	13	4.9	1.6	1.7
30	1.8	3.2	4.9	5.0	---	3.1	70	20	13	6.4	1.5	1.7
31	1.8	---	5.0	4.8	---	3.1	---	21	---	6.3	1.7	---
TOTAL	53.2	67.9	124.6	150.4	113.1	109.2	973.3	1164	962	202.4	88.4	54.59
MEAN	1.72	2.26	4.02	4.85	3.90	3.52	32.4	37.5	32.1	6.53	2.85	1.82
MAX	2.0	3.2	5.0	5.1	4.7	4.2	115	90	52	26	6.0	4.3
MIN	1.3	1.8	3.3	4.6	3.2	2.8	3.0	17	13	1.9	1.5	.86
AC-FT	106	135	247	298	224	217	1930	2310	1910	401	175	108

CAL YR 1979 TOTAL 4711.60 MEAN 12.9 MAX 106 MIN 1.2 AC-FT 9350
WTR YR 1980 TOTAL 4063.09 MEAN 11.1 MAX 115 MIN .86 AC-FT 8060

09259700 LITTLE SNAKE RIVER NEAR BAGGS, WY

LOCATION.--Lat 41°00'17", long 107°54'59", in SW¼ sec.18, T.12 N., R.94 W., Carbon County, Hydrologic Unit 14050003, at former discharge station, 600 ft (183 m) upstream from Wyoming-Colorado State line, 0.5 mi (0.8 km) upstream from Scandinavian Wash, and 15 mi (24 km) west of Baggs.

DRAINAGE AREA.--3,020 mi^2 (7,820 km^2), approximately.

PERIOD OF RECORD.--Water years 1965 to August 1976, October 1977 to September 1980 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT 25...	1200	108	--	--	1.5	--	140	0
DEC 19...	1700	90	--	--	--	--	150	2
FEB 05...	1615	100	--	--	--	--	150	2
MAR 17...	1830	1750	395	7.8	3.0	--	140	0
MAY 06...	1930	4700	195	7.4	7.0	--	70	3
JUN 17...	1545	4600	100	7.3	14.0	7.4	45	0
SEP 08...	1200	2.0	750	7.7	15.0	5.6	250	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT 25...	40	10	40	1.5	3.0	190	6	170	54
DEC 19...	48	8.5	19	.7	2.0	180	0	150	35
FEB 05...	41	11	17	.6	2.0	180	0	150	34
MAR 17...	40	9.8	26	1.0	3.3	180	0	150	42
MAY 06...	21	3.9	5.8	.3	2.7	82	0	67	21
JUN 17...	15	1.8	3.0	.2	1.0	59	0	48	--
SEP 08...	65	21	70	1.9	2.4	320	0	260	100

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT 25...	8.6	.4	16	277	.38	80.8	.10	.350
DEC 19...	4.4	.3	19	224	.30	54.4	.00	.020
FEB 05...	4.0	.3	20	218	.30	58.9	.07	.030
MAR 17...	6.0	.1	14	230	.31	1090	.16	.310
MAY 06...	1.3	.3	12	110	.15	1400	.21	.550
JUN 17...	.9	.2	11	60	.08	745	.00	.040
SEP 08...	19	.5	10	450	.61	2.43	.03	.010

09259700 LITTLE SNAKE RIVER NEAR BAGGS, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)	2,4-DP IN BOTTOM MATERIL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT											
25...	1200	108	1.5	.00	0	.00	.0	.00	0	.00	.0
JUN											
25...	1500	2700	16.5	.00	0	.00	.0	.00	0	.00	.0
SEP											
08...	1200	2,0	15.0	.00	0	.00	.0	.00	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA-TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA-TERIAL (UG/KG)
OCT				
25...	.00	.0	.00	.0
JUN				
25...	.00	.0	.01	.0
SEP				
08...	.04	.0	.03	.0

BEAR RIVER BASIN

10010400 EAST FORK BEAR RIVER NEAR EVANSTON, WY

LOCATION.--Lat 40°52'25", long 110°47'00", in SE¼SW¼ sec.26, T.2 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, Wasatch National Forest, on right bank 4.1 mi (6.6 km) upstream from mouth, 11.5 mi (18.5 km) upstream from Utah-Wyoming State line, and 28.7 mi (46.2 km) south of Evanston.

DRAINAGE AREA.--34.6 mi^2 (89.6 km^2).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,760 ft (2,670 m), from topographic map.

REMARKS.--Records good except those for winter months and period of no gage-height record, Jan. 30 to Apr. 16, which are fair.

AVERAGE DISCHARGE.--7 years, 50.2 ft^3/s (1.42 m^3/s), 36,370 acre-ft/yr (44.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 631 ft^3/s (17.9 m^3/s) July 4, 1975, gage height, 4.15 ft (1.265 m); minimum observed, 4.5 ft^3/s (0.127 m^3/s) Apr. 17, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 477 ft^3/s (13.5 m^3/s) June 11, gage height, 3.67 ft (1.119 m); minimum observed, 4.5 ft^3/s (0.127 m^3/s) Apr. 17 (may have been less during periods of ice effect).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	12	10	7.5	7.5	7.0	7.0	60	123	249	42	21
2	11	12	10	7.5	7.5	6.5	7.0	58	124	240	40	19
3	9.8	12	9.5	8.0	7.5	6.5	7.0	68	134	213	37	17
4	10	12	8.8	8.5	7.5	6.5	7.0	80	177	191	35	17
5	10	12	8.4	8.7	7.5	7.0	7.5	95	209	172	34	16
6	9.9	12	8.0	8.5	7.5	7.0	7.5	92	222	159	32	16
7	9.9	12	8.0	8.5	7.5	7.0	7.5	101	204	155	30	18
8	9.9	12	8.0	8.5	7.5	7.0	7.5	104	247	144	29	19
9	9.5	12	7.7	8.5	7.5	7.0	7.5	105	300	135	29	20
10	9.7	12	7.7	8.0	7.5	7.0	8.0	89	357	138	28	35
11	9.7	12	7.0	8.5	7.5	7.0	8.0	74	406	132	27	30
12	9.7	12	6.5	9.0	7.5	7.0	8.0	68	406	124	26	28
13	9.6	12	7.0	9.5	7.5	7.0	9.0	63	362	117	26	28
14	10	11	7.5	10	7.5	7.0	10	65	334	105	27	23
15	11	10	7.5	9.5	7.5	7.0	12	56	286	98	30	23
16	11	9.0	7.5	9.0	7.5	7.0	14	60	256	94	27	22
17	11	8.8	7.5	8.5	7.5	7.0	15	57	293	88	25	21
18	14	8.8	7.5	8.0	8.5	7.0	16	56	308	84	24	20
19	17	8.8	7.5	7.5	10	7.0	20	67	349	80	24	20
20	17	8.8	7.5	7.5	8.5	7.0	27	84	341	76	24	19
21	17	9.2	7.5	7.5	7.5	7.0	26	126	318	71	22	19
22	16	8.8	7.5	7.5	7.5	7.0	40	183	308	66	21	19
23	14	8.8	7.5	7.5	7.5	7.0	43	233	302	67	23	19
24	14	8.8	7.5	7.5	7.5	7.0	40	177	284	62	22	18
25	14	9.5	7.5	7.5	7.5	7.0	42	134	276	57	27	18
26	13	9.5	7.5	7.5	7.5	7.0	50	115	271	53	30	17
27	11	9.9	7.5	7.5	7.5	7.0	50	109	253	54	22	17
28	12	10	7.5	7.5	7.5	7.0	55	114	218	48	21	16
29	15	9.9	7.5	7.5	7.5	7.0	68	123	223	46	19	16
30	13	9.9	7.5	7.5	---	7.0	71	111	247	46	19	15
31	12	---	7.5	7.5	---	7.0	---	117	---	43	22	---
TOTAL	370.7	315.5	241.6	251.7	222.0	215.5	697.5	3044	8138	3407	844	606
MEAN	12.0	10.5	7.79	8.12	7.66	6.95	23.3	98.2	271	110	27.2	20.2
MAX	17	12	10	10	10	7.0	71	233	406	249	42	35
MIN	9.5	8.8	6.5	7.5	7.5	6.5	7.0	56	123	43	19	15
AC-FT	735	626	479	499	440	427	1380	6040	16140	6760	1670	1200

CAL YR 1979 TOTAL 14024.2 MEAN 38.4 MAX 424 MIN 6.1 AC-FT 27820
WTR YR 1980 TOTAL 18353.5 MEAN 50.1 MAX 406 MIN 6.5 AC-FT 36400

10011200 WEST FORK BEAR RIVER AT WHITNEY DAM, NEAR OAKLEY, UT

LOCATION.--Lat 40°50'30", long 110°55'35", in NE¼ sec.9, T.1 N., R.9 E., Summit County, Hydrologic Unit 16010101, Wasatch National Forest, on left bank 1,380 ft (421 m) downstream from Whitney Dam, 7 mi (11 km) upstream from Deer Creek, and 21.5 mi (34.6 km) northeast of Oakley.

DRAINAGE AREA.--6.79 mi^2 (17.59 km^2).

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1965, published as "at Whitney Dam Site".

REVISED RECORD.--WRD UT-1973: Drainage area.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir since Aug. 4, 1966. Altitude of gage is 9,120 ft (2,780 m), from topographic map.

REMARKS.--Records good except those for winter months and periods of no gage-height record, Nov. 14 to Apr. 14, Apr. 23 to Aug. 19, which are poor. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-feet (5.80 hm^3) since July 1966.

AVERAGE DISCHARGE.--14 years (water years 1967-80), 7.86 ft^3/s (0.223 m^3/s), 5,690 acre-ft/yr (7.02 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145 ft^3/s (4.11 m^3/s) June 13, 1965; maximum gage height, 3.08 ft (0.939 m) June 26, 1967; no flow July 24 to Sept. 30, Nov. 16-29, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 80 ft^3/s (2.27 m^3/s) July 24-29 (occurred during period of no gage-height record); minimum, 0.15 ft^3/s (0.004 m^3/s) several days during October.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.31	.40	.50	.70	.90	1.1	1.2	2.5	46	29	5.1
2	.16	.31	.40	.50	.70	.90	1.1	1.3	2.5	48	28	5.1
3	.16	.28	.40	.50	.70	.90	1.1	1.3	2.5	39	27	5.2
4	.16	.28	.40	.50	.70	.90	1.1	1.4	2.6	41	26	5.2
5	.15	.28	.40	.50	.70	.90	1.1	1.4	2.6	25	20	5.2
6	.16	.28	.40	.50	.70	.90	1.1	1.5	2.6	20	6.0	36
7	.16	.28	.40	.50	.70	.90	1.1	1.5	2.7	19	6.0	51
8	.16	.28	.40	.50	.70	.90	1.1	1.6	2.7	18	6.0	50
9	.16	.28	.40	.50	.70	.90	1.1	1.6	2.7	17	6.0	49
10	.16	.29	.40	.50	.70	.90	1.1	1.7	2.8	16	6.0	48
11	.16	.31	.40	.50	.70	.90	1.2	1.7	2.8	15	5.5	48
12	.16	.31	.40	.50	.70	.90	1.2	1.8	2.9	13	5.5	46
13	.15	.31	.40	.50	.70	.90	1.2	1.8	2.9	12	5.5	45
14	.15	.30	.40	.50	.70	.90	1.2	1.9	2.9	11	5.5	44
15	.16	.30	.40	.50	.70	.90	1.2	1.9	3.0	10	5.5	43
16	.20	.30	.40	.60	.80	1.0	1.2	2.0	3.0	9.0	5.5	42
17	.22	.30	.40	.60	.80	1.0	1.2	2.0	3.1	8.0	5.5	40
18	.22	.30	.40	.60	.80	1.0	1.2	2.1	3.1	7.5	5.5	38
19	.23	.30	.40	.60	.80	1.0	1.2	2.1	3.1	7.0	5.5	37
20	.25	.30	.40	.60	.80	1.0	1.2	2.1	3.2	6.0	5.4	17
21	.20	.30	.40	.60	.80	1.0	1.2	2.1	3.2	5.5	5.3	.66
22	.20	.30	.40	.60	.80	1.0	1.2	2.1	17	5.0	5.3	.63
23	.20	.30	.40	.60	.80	1.0	1.2	2.2	60	35	5.3	.63
24	.22	.30	.40	.60	.80	1.0	1.2	2.2	68	80	5.3	.63
25	.20	.30	.40	.60	.80	1.0	1.2	2.2	65	80	5.3	.60
26	.20	.30	.40	.60	.80	1.0	1.2	2.3	60	80	5.3	.60
27	.29	.30	.40	.60	.80	1.0	1.2	2.3	56	80	5.2	.57
28	.28	.30	.40	.60	.80	1.0	1.2	2.3	52	80	5.1	.54
29	.25	.30	.40	.60	.80	1.0	1.2	2.4	49	80	5.1	.52
30	.36	.30	.40	.60	---	1.0	1.2	2.4	45	60	5.1	.49
31	.36	---	.40	.60	---	1.0	---	2.4	---	31	5.1	---
TOTAL	6.25	8.90	12.40	17.10	21.70	29.50	35.0	58.8	531.4	1004.0	272.3	665.67
MEAN	.20	.30	.40	.55	.75	.95	1.17	1.90	17.7	32.4	8.78	22.2
MAX	.36	.31	.40	.60	.80	1.0	1.2	2.4	68	80	29	51
MIN	.15	.28	.40	.50	.70	.90	1.1	1.2	2.5	5.0	5.1	.49
AC-FT	12	18	25	34	43	59	69	117	1050	1990	540	1320

CAL YR 1979 TOTAL 2010.88 MEAN 5.51 MAX 97 MIN .09 AC-FT 3990
WTR YR 1980 TOTAL 2663.02 MEAN 7.28 MAX 80 MIN .15 AC-FT 5280

10011400 WEST FORK BEAR RIVER BELOW DEER CREEK, NEAR EVANSTON, WY

LOCATION.--Lat 40°56'40", long 110°51'40", in NW¼SW¼ sec.6, T.2 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, on left bank 0.8 mi (1.3 km) downstream from Deer Creek, 2.1 mi (3.4 km) upstream from mouth, and 22.9 mi (36.8 km) south of Evanston.

DRAINAGE AREA.--52.2 mi^2 (135.2 km^2).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8,190 ft (2,496 m), from topographic map.

REMARKS.--Records good except those for winter period, which are fair. Flow regulated by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm^3), since July 1966.

AVERAGE DISCHARGE.--7 years, 40.6 ft^3/s (1.15 m^3/s), 29,410 acre-ft/yr (36.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 511 ft^3/s (14.5 m^3/s) June 8, 1975, gage height, 4.00 ft (1.219 m); minimum, 2.0 ft^3/s (0.057 m^3/s) Aug. 11, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 397 ft^3/s (11.2 m^3/s) May 22, gage height, 3.52 ft (1.073 m); minimum, 4.0 ft^3/s (0.113 m^3/s) Dec. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	8.5	8.0	8.0	8.5	8.0	8.0	81	198	97	34	16
2	4.8	8.5	8.0	8.0	8.5	8.0	8.0	93	189	103	32	14
3	4.8	8.5	8.0	8.0	8.5	7.6	8.0	114	204	89	31	14
4	4.8	8.5	8.5	8.5	8.5	7.8	8.0	136	235	90	30	14
5	4.8	8.5	8.7	9.1	8.5	8.0	8.5	155	255	72	27	14
6	4.8	8.5	8.1	8.5	8.5	8.0	8.5	174	242	62	16	40
7	4.8	8.5	7.7	8.9	8.5	8.0	8.5	194	215	59	16	85
8	4.8	8.5	7.4	8.9	8.5	8.0	8.5	218	230	58	15	83
9	4.8	8.5	7.5	8.8	8.5	8.0	8.5	212	243	54	15	83
10	5.0	8.5	7.1	6.8	8.5	8.0	9.3	163	252	49	15	83
11	5.0	8.5	6.0	8.9	8.5	8.0	9.0	129	254	45	14	82
12	5.0	8.5	6.0	9.3	8.5	8.0	9.0	113	243	41	14	82
13	5.0	8.5	6.0	9.7	8.8	8.0	9.5	101	220	38	14	77
14	5.3	8.5	6.5	11	8.7	8.0	10	107	204	35	14	73
15	5.7	8.5	7.0	10	8.8	8.0	11	115	181	33	14	72
16	6.0	8.0	7.5	9.6	8.6	8.0	12	120	165	31	15	70
17	6.1	8.0	8.0	9.4	8.5	8.0	13	112	165	28	14	69
18	7.0	8.0	8.0	9.1	9.8	8.0	15	125	166	27	14	67
19	14	8.0	8.0	8.5	11	8.0	19	182	167	26	16	64
20	18	8.0	8.0	8.5	8.9	8.0	24	230	161	25	15	52
21	16	8.0	8.0	8.5	8.5	8.0	32	279	147	24	14	13
22	13	8.0	8.0	8.5	8.5	8.0	36	310	138	22	14	12
23	9.3	8.0	8.0	8.5	8.5	8.0	34	337	140	51	14	11
24	10	8.0	8.0	8.5	8.5	8.0	35	276	147	98	14	11
25	11	8.0	8.0	8.5	8.5	8.0	38	195	141	96	20	10
26	11	8.0	8.0	8.5	8.5	8.0	46	165	132	95	18	10
27	9.1	8.0	8.0	8.5	8.5	8.0	52	175	122	93	15	10
28	8.2	8.0	8.0	8.5	8.5	8.0	64	190	110	92	14	9.6
29	8.9	8.0	8.0	8.5	8.5	8.0	78	194	102	91	13	9.3
30	8.5	8.0	8.0	8.5	---	8.0	89	172	99	70	14	8.9
31	8.5	---	8.0	8.5	---	8.0	---	190	---	35	16	---
TOTAL	238.8	247.5	238.0	271.0	251.6	247.4	719.3	5357	5467	1829	541	1258.8
MEAN	7.70	8.25	7.68	8.74	8.68	7.98	24.0	173	182	59.0	17.5	42.0
MAX	18	8.5	8.7	11	11	8.0	89	337	255	103	34	85
MIN	4.8	8.0	6.0	6.8	8.5	7.6	8.0	81	99	22	13	8.9
AC-FT	474	491	472	538	499	491	1430	10630	10840	3630	1070	2500

CAL YR 1979 TOTAL 9977.8 MEAN 27.3 MAX 235 MIN 3.8 AC-FT 19790
WTR YR 1980 TOTAL 16666.4 MEAN 45.5 MAX 337 MIN 4.8 AC-FT 33060

10011500 BEAR RIVER NEAR UTAH-WYOMING STATE LINE

LOCATION.--Lat 40°57'55", long 110°51'10", in SE¼ sec.30, T.3 N., R.10 E., Summit County, UT, Hydrologic Unit 16010101, on left bank just downstream from West Fork and 2.8 mi (4.5 km) upstream from Utah-Wyoming State line.

DRAINAGE AREA.--172 mi^2 (445 km^2).

PERIOD OF RECORD.--July 1942 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,965 ft (2,427.7 m), from river-profile map.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated slightly by Whitney Reservoir, total capacity, 4,700 acre-ft (5.80 hm^3) since 1966. Three diversions above station for irrigation of about 265 acres (107,000 m^2) above and 2,600 acres (10.5 km^2) below station.

AVERAGE DISCHARGE.--38 years, 187 ft^3/s (5.30 m^3/s), 135,500 acre-ft/yr (167 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,980 ft^3/s (84.4 m^3/s) June 6, 1968, gage height, 3.79 ft (1.155 m); maximum gage height, 4.27 ft (1.301 m) June 6, 1957; minimum discharge determined, 12 ft^3/s (0.340 m^3/s) Nov. 9, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft^3/s (31.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 23	2200	1,180	33.4	3.17	0.996
June 12	0100	*1,660	47.0	3.71	1.131
June 20	0100	1,280	36.2	3.27	0.997

Minimum daily discharge, 12 ft^3/s (0.340 m^3/s) Nov. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	33	26	27	31	31	30	280	565	758	107	64
2	29	33	28	27	30	31	30	276	558	746	100	60
3	27	33	30	29	29	31	30	313	578	663	94	58
4	27	33	30	28	28	31	30	383	710	618	90	58
5	27	33	30	28	28	32	30	451	848	536	94	56
6	27	33	30	28	29	32	30	457	869	479	90	82
7	27	33	30	29	29	32	29	515	777	463	86	128
8	27	33	30	29	27	32	31	563	890	448	82	127
9	26	32	30	29	26	32	31	550	1040	415	78	128
10	26	31	28	30	25	32	34	467	1200	401	76	143
11	25	30	26	28	26	32	30	371	1360	383	72	136
12	25	31	24	32	27	32	31	321	1350	347	69	134
13	25	32	26	33	28	32	34	283	1180	315	67	129
14	26	33	28	37	28	32	35	278	1040	278	68	120
15	27	34	29	35	28	31	40	308	950	245	78	119
16	31	35	29	36	29	29	41	315	876	221	72	115
17	30	36	29	36	29	27	46	300	939	197	68	113
18	34	35	29	36	30	28	55	300	1000	187	65	110
19	51	34	30	35	29	29	70	391	1060	177	63	106
20	71	33	29	34	31	30	93	514	1090	170	74	93
21	47	32	29	34	31	30	123	693	990	158	65	54
22	42	30	30	34	32	31	157	900	976	148	60	53
23	45	32	29	33	32	31	168	1120	946	156	61	51
24	44	35	28	32	31	31	151	905	911	210	60	50
25	46	37	30	31	30	31	166	659	883	191	70	49
26	47	39	28	31	32	30	193	531	855	185	100	48
27	40	36	26	31	34	30	207	515	815	176	71	48
28	37	31	25	30	34	30	223	542	692	173	61	47
29	41	28	25	30	32	30	279	568	692	167	55	46
30	37	25	25	29	---	30	326	509	752	156	54	45
31	34	---	26	30	---	30	---	542	---	113	60	---
TOTAL	1076	985	872	971	855	952	2773	15120	27392	9880	2310	2570
MEAN	34.7	32.8	28.1	31.3	29.5	30.7	92.4	488	913	319	74.5	85.7
MAX	71	39	30	37	34	32	326	1120	1360	758	107	143
MIN	25	25	24	27	25	27	29	276	558	113	54	45
AC-FT	2130	1950	1730	1930	1700	1890	5500	29990	54330	19600	4580	5100

CAL YR 1979 TOTAL 48395 MEAN 133 MAX 1560 MIN 24 AC-FT 95990
WTR YR 1980 TOTAL 65756 MEAN 180 MAX 1360 MIN 24 AC-FT 130400

10015700 SULPHUR CREEK ABOVE RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°08'38", long 110°48'19", in SE¼SW¼ sec.35, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on right bank 1.2 mi (1.9 km) downstream from Willow Creek, 2 mi (3.2 km) upstream from Sulphur Creek Dam, and 11.5 mi (18.5 km) southeast of Evanston.

DRAINAGE AREA.--64.2 mi^2 (166.3 km^2).

PERIOD OF RECORD.--October 1957 to current year. Monthly discharge only for October and November 1957, published in WSP 1734.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 7,180 ft (2,188 m), from topographic map.

REMARKS.--Records good except those for winter months, which are fair. Several diversions for irrigation above station.

AVERAGE DISCHARGE.--23 years, 15.9 ft^3/s (0.450 m^3/s), 11,520 acre-ft/yr (14.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft^3/s (34.6 m^3/s) Apr. 21, 1965, gage height, 6.02 ft (1.835 m); maximum gage height, 6.19 ft (1.887 m) Mar. 11, 1972 (backwater from ice); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 673 ft^3/s (19.1 m^3/s) Apr. 25, gage height, 5.48 ft (1.670 m); maximum gage height, 6.17 ft (1.881 m) April 19 (backwater from ice); no flow Oct. 1-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.88	.60	.60	4.5	5.0	5.2	202	41	6.4	2.0	.31
2	.00	.64	.60	.60	4.5	5.0	5.2	136	45	18	.96	.22
3	.00	.64	.60	.60	4.5	5.0	5.2	128	42	10	.64	.16
4	.00	.72	.60	.60	4.5	5.0	5.2	108	40	16	.56	.10
5	.00	1.0	.60	.60	4.5	5.2	5.2	131	47	10	.64	.09
6	.00	.96	.60	.60	4.5	5.2	5.2	126	43	3.6	.64	.08
7	.00	.80	.60	.60	4.5	5.2	5.2	138	31	2.1	.72	.13
8	.00	.70	.60	.60	4.5	5.2	5.2	129	22	4.0	.64	.22
9	.00	.60	.60	.60	4.5	5.2	5.5	129	30	6.4	.96	.31
10	.00	.50	.60	.60	4.5	5.2	6.0	109	28	6.4	.40	.80
11	.01	.48	.60	.60	4.5	5.2	6.0	78	26	4.5	.28	.80
12	.04	.31	.60	1.0	4.5	5.2	7.0	62	21	2.1	.25	.96
13	.06	.25	.60	4.0	4.5	5.2	8.0	80	14	1.5	.25	.80
14	.08	.22	.60	6.0	5.0	5.2	10	65	13	1.2	.19	.72
15	.10	.22	.60	6.0	5.0	5.2	12	52	14	.88	.25	.37
16	.16	.22	.60	5.5	5.0	5.2	13	59	13	1.2	.25	.34
17	.16	.25	.60	5.0	5.0	5.2	15	96	12	.80	.25	.28
18	.25	.28	.60	5.0	5.0	5.2	25	81	10	.56	.19	.25
19	.34	.34	.60	4.5	5.0	5.2	45	76	10	.56	.19	.19
20	1.1	.56	.60	4.5	5.0	5.2	80	99	13	.48	.34	.22
21	.80	.64	.60	4.5	5.0	5.2	140	129	19	1.2	.40	.25
22	.64	.80	.60	4.5	5.0	5.2	250	142	10	.48	.48	.28
23	.64	.96	.60	4.5	5.0	5.2	230	152	7.5	.64	.40	.34
24	.64	.96	.60	4.5	5.0	5.2	208	136	6.1	.88	.37	.34
25	.64	.96	.60	4.5	5.0	5.2	290	68	5.8	1.2	1.2	.34
26	.56	.80	.60	4.5	5.0	5.2	262	51	3.6	2.7	1.6	.31
27	.48	.70	.60	4.5	5.0	5.2	173	43	2.6	2.4	.88	.31
28	.48	.60	.60	4.5	5.0	5.2	153	36	2.4	1.5	.48	.28
29	.56	.60	.60	4.5	5.0	5.2	146	36	2.2	1.0	.72	.25
30	.72	.60	.60	4.5	---	5.2	219	39	2.9	.88	.56	.22
31	.72	---	.60	4.5	---	5.2	---	41	---	2.4	.34	---
TOTAL	9.18	18.19	18.60	97.60	138.5	160.4	2345.1	2957	577.1	111.96	18.03	10.27
MEAN	.30	.61	.60	3.15	4.78	5.17	78.2	95.4	19.2	3.61	.58	.34
MAX	1.1	1.0	.60	6.0	5.0	5.2	290	202	47	18	2.0	.96
MIN	.00	.22	.60	.60	4.5	5.0	5.2	36	2.2	.48	.19	.08
AC-FT	18	36	37	194	275	318	4650	5870	1140	222	36	20

CAL YR 1979 TOTAL 2576.86 MEAN 7.06 MAX 115 MIN .00 AC-FT 5110
WTR YR 1980 TOTAL 6461.93 MEAN 17.7 MAX 290 MIN .00 AC-FT 12820

10015900 SULPHUR CREEK BELOW RESERVOIR, NEAR EVANSTON, WY

LOCATION.--Lat 41°09'21", long 110°50'05", in SE¼SE¼ sec.28, T.14 N., R.119 W., Uinta County, Hydrologic Unit 16010101, on left bank 400 ft (122 m) downstream from Sulphur Creek Dam, 6.3 mi (10.1 km) upstream from mouth, and 10.5 mi (16.9 km) southeast of Evanston.

DRAINAGE AREA.--69.2 mi^2 (179.2 km^2).

PERIOD OF RECORD.--April 1958 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder and concrete V-notch control. Altitude of gage is 7,120 ft (2,170 m), from topographic map.

REMARKS.--Records good. Flow regulated by Sulphur Creek Reservoir, capacity, 7,100 acre-ft (8.75 hm^3). Records prior to 1965 do not include flow over spillway of dam.

AVERAGE DISCHARGE.--16 years (water years 1965-80), 23.5 ft^3/s (0.666 m^3/s), 17,030 acre-ft/yr (21.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD (SINCE 1966).--Maximum discharge, 425 ft^3/s (12.0 m^3/s) May 10, 1974, gage height, 3.71 ft (1.131 m); no flow at times each year except 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 271 ft^3/s (7.67 m^3/s) Apr. 28, gage height, 2.89 ft (0.881 m); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	.00	.00	.00	.00	.00	49	250	62	.00	46	24
2	2.3	.00	.00	.00	.00	.00	49	219	74	.00	41	24
3	2.3	.00	.00	.00	.00	.00	49	195	74	.00	37	24
4	2.4	.00	.00	.00	.00	.00	49	187	74	.39	38	24
5	2.3	.00	.00	.00	.00	.00	49	187	74	2.2	38	23
6	2.3	.00	.00	.00	.00	.00	48	187	40	3.5	38	23
7	2.2	.00	.00	.00	.00	.00	48	187	20	4.1	38	23
8	2.2	.00	.00	.00	.00	.00	48	186	20	6.2	36	23
9	2.2	.00	.00	.00	.00	.00	48	187	20	10	32	23
10	2.2	.00	.00	.00	.00	15	48	186	20	12	32	23
11	2.3	.00	.00	.00	.00	30	47	186	20	11	32	23
12	2.2	.00	.00	.00	.00	30	47	184	20	9.3	30	23
13	2.2	.00	.00	.00	.00	30	47	184	20	6.9	27	19
14	1.9	.00	.00	.00	.00	30	47	66	20	5.9	27	9.6
15	.06	.00	.00	.00	.00	30	47	7.2	20	6.4	27	9.5
16	.00	.00	.00	.00	.00	30	46	7.3	20	7.5	27	9.5
17	.00	.00	.00	.00	.00	30	46	7.3	20	6.2	27	9.5
18	.00	.00	.00	.00	.00	30	46	7.5	20	11	36	9.5
19	.00	.00	.00	.00	.00	30	46	26	20	17	42	9.5
20	.00	.00	.00	.00	.00	30	47	47	20	17	42	9.5
21	.00	.00	.00	.00	.00	30	49	48	20	38	42	7.8
22	.00	.00	.00	.00	.00	30	52	49	20	55	42	.05
23	.00	.00	.00	.00	.00	30	54	53	7.0	63	42	.00
24	.00	.00	.00	.00	.00	30	56	82	.07	51	41	.00
25	.00	.00	.00	.00	.00	40	58	84	.03	50	41	.00
26	.00	.00	.00	.00	.00	50	80	73	.00	47	39	.00
27	.00	.00	.00	.00	.00	50	200	63	.00	40	28	.00
28	.00	.00	.00	.00	.00	50	247	56	.00	40	28	.00
29	.00	.00	.00	.00	.00	50	234	52	.00	41	28	.00
30	.00	.00	.00	.00	---	50	241	51	.00	42	28	.00
31	.00	---	.00	.00	---	50	---	50	---	46	27	---
TOTAL	31.36	.00	.00	.00	.00	775.00	2222	3354.3	725.10	649.59	1079	373.45
MEAN	1.01	.000	.000	.000	.000	25.0	74.1	108	24.2	21.0	34.8	12.4
MAX	2.4	.00	.00	.00	.00	50	247	250	74	63	46	24
MIN	.00	.00	.00	.00	.00	.00	46	7.2	.00	.00	27	.00
AC-FT	62	.00	.00	.00	.00	1540	4410	6650	1440	1290	2140	741

CAL YR 1979 TOTAL 3593.99 MEAN 9.85 MAX 79 MIN .00 AC-FT 7130
WTR YR 1980 TOTAL 9209.80 MEAN 25.2 MAX 250 MIN .00 AC-FT 18270

10019500 CHAPMAN CANAL AT STATE LINE, NEAR EVANSTON, WY

LOCATION.--Lat 41°24'24", long 111°02'26", in SE¼ sec.36, T.17 N., R.121 W., Uinta County, Hydrologic Unit 16010101, on left bank at highway bridge, 6.5 mi (10.5 km) downstream from headgates, and 10 mi (16 km) northwest of Evanston.

PERIOD OF RECORD.--April 1942 to current year (prior to October 1944, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder and flashboard control. Altitude of gage is 6,570 ft (2,003 m), from river-profile map. Prior to Oct. 11, 1946, nonrecording gage, and Oct. 11, 1946, to Aug. 2, 1961, water-stage recorder, at site 20 ft (6 m) downstream at same datum.

REMARKS.--Records good except those for winter months, which are fair. Canal diverts water from Bear River in NW¼ sec.36, T.16 N., R.121 W. Many diversions above station for irrigation in Wyoming. Flow at station is for storage in Neponset Reservoir, UT, and irrigation in Saleratus basin, UT.

AVERAGE DISCHARGE.--36 years (water years 1945-80), 19.9 ft^3/s (0.564 m^3/s), 14,420 acre-ft/yr (17.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 143 ft^3/s (4.05 m^3/s) June 24, 1970; no flow at times each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	1.6	10	.00	.00	.00	13	42	43	48	11	6.6
2	1.0	1.6	10	.00	.00	.00	15	31	51	57	11	6.9
3	1.3	2.3	10	.00	.00	.00	15	28	58	59	9.9	9.6
4	1.3	2.1	10	.00	.00	.00	15	27	58	54	9.0	9.6
5	1.8	2.3	10	.00	.00	.00	15	27	57	46	8.4	8.4
6	1.3	2.3	10	.00	.00	.00	15	27	58	37	9.0	8.1
7	1.3	2.1	10	.00	.00	.00	15	28	54	26	7.8	9.3
8	1.0	1.3	10	.00	.00	.00	15	29	83	30	7.8	9.3
9	.26	1.3	10	.00	.00	.00	15	28	87	35	8.1	9.9
10	.26	.78	10	.00	.00	.00	15	28	87	34	6.6	14
11	.26	.78	10	.00	.00	.00	15	39	88	32	5.7	16
12	1.3	.78	5.0	.00	.00	6.0	15	71	79	30	4.3	19
13	1.6	1.0	.00	.00	.00	12	15	71	65	27	4.6	21
14	1.6	.78	.00	.00	.00	12	15	71	58	24	4.0	17
15	.26	1.5	.00	.00	.00	12	15	64	56	17	4.0	12
16	.00	5.0	.00	.00	.00	12	16	67	51	18	5.1	11
17	.26	10	.00	.00	.00	12	17	71	44	14	4.8	11
18	1.0	14	.00	.00	.00	12	18	74	48	10	4.6	12
19	2.9	14	.00	.00	.00	12	19	70	51	6.9	3.2	11
20	7.2	14	.00	.00	.00	12	20	74	54	4.8	6.3	13
21	13	14	.00	.00	.00	12	21	81	60	3.7	9.6	22
22	9.9	5.0	.00	.00	.00	12	23	83	58	2.9	9.0	23
23	8.1	10	.00	.00	.00	12	25	92	49	6.0	9.9	18
24	9.6	10	.00	.00	.00	13	27	134	48	7.2	9.0	17
25	3.2	10	.00	.00	.00	12	29	116	46	4.6	7.5	17
26	1.6	10	.00	.00	.00	12	31	86	50	7.2	9.3	16
27	1.8	10	.00	.00	.00	12	33	78	48	7.2	12	15
28	2.9	10	.00	.00	.00	13	35	74	46	6.3	10	15
29	2.6	10	.00	.00	.00	12	34	70	42	6.3	8.7	15
30	2.9	10	.00	.00	---	12	35	64	45	8.7	8.7	15
31	1.8	---	.00	.00	---	17	---	51	---	11	6.6	---
TOTAL	83.30	178.52	115.00	.00	.00	241.00	606	1896	1722	680.8	235.5	407.7
MEAN	2.69	5.95	3.71	.000	.000	7.77	20.2	61.2	57.4	22.0	7.60	13.6
MAX	13	14	10	.00	.00	17	35	134	88	59	12	23
MIN	.00	.78	.00	.00	.00	.00	13	27	42	2.9	3.2	6.6
AC-FT	165	354	228	.00	.00	478	1200	3760	3420	1350	467	809

CAL YR 1979 TOTAL 7274.24 MEAN 19.9 MAX 126 MIN .00 AC-FT 14430
WTR YR 1980 TOTAL 6165.82 MEAN 16.8 MAX 134 MIN .00 AC-FT 12230

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NW¼NW¼ sec.29, T.17 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, on right bank 9.3 mi (15.0 km) upstream from Woodruff Narrows Dam and 10 mi (16 km) southeast of Woodruff.

DRAINAGE AREA.--752 mi^2 (1,948 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,455 ft (1,967.5 m), from river-profile map.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 43,500 acres (176 km^2) above station.

AVERAGE DISCHARGE.--19 years, 231 ft^3/s (6.54 m^3/s), 167,400 acre-ft/yr (206 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,340 ft^3/s (94.6 m^3/s) June 13, 1965, gage height, 5.89 ft (1.795 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Aug. 24, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,790 ft^3/s (50.7 m^3/s) Apr. 22; gage height, 5.10 ft (1.554 m); minimum, 2.0 ft^3/s (0.057 m^3/s) Oct. 3-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	29	11	29	30	60	74	1570	734	398	18	6.0
2	2.6	28	11	36	40	70	74	1250	792	584	19	5.5
3	2.3	29	12	37	50	75	67	1070	805	519	18	6.0
4	2.1	31	13	38	60	78	74	1020	890	480	13	7.4
5	2.3	34	15	39	55	80	109	1080	1030	432	10	7.0
6	2.3	36	16	36	60	85	144	1110	1140	320	9.5	7.4
7	2.6	32	17	28	60	90	114	1180	1030	262	9.0	9.0
8	2.4	32	19	30	40	90	96	1270	883	274	8.3	12
9	2.4	33	21	34	30	95	124	1330	928	292	8.3	13
10	2.4	30	23	30	30	100	198	1290	1060	262	8.7	14
11	2.3	27	23	28	35	105	186	1080	1200	230	7.7	20
12	2.3	25	20	39	40	105	192	883	1350	220	7.0	29
13	2.4	23	17	55	50	109	161	818	1330	189	6.4	31
14	2.4	20	18	65	60	150	198	714	1120	161	6.0	27
15	2.4	17	20	75	70	195	302	493	954	134	6.7	16
16	2.3	15	24	75	70	173	398	526	779	107	7.0	12
17	2.4	13	27	75	70	156	444	636	688	81	8.0	10
18	2.6	14	28	75	70	118	552	694	714	49	10	10
19	5.2	19	28	72	70	87	792	616	760	32	10	12
20	21	13	29	70	70	116	1140	727	831	24	9.0	9.5
21	45	11	30	66	70	96	1530	922	812	17	13	10
22	36	10	33	64	65	85	1720	1210	740	16	14	14
23	26	9.5	31	62	60	85	1620	1480	688	16	12	18
24	26	10	26	65	55	85	1460	1690	636	18	10	15
25	30	11	27	70	50	85	1290	1440	604	15	8.3	14
26	32	14	31	70	52	96	1510	994	552	12	8.7	14
27	36	13	29	60	54	62	1500	818	486	15	12	13
28	36	12	24	50	56	64	1310	792	432	13	16	12
29	30	11	23	40	58	57	1180	812	370	12	12	12
30	30	10	23	30	---	67	1340	779	365	12	7.7	12
31	30	---	23	25	---	72	---	694	---	14	6.7	---
TOTAL	426.1	611.5	692	1568	1580	2991	19899	30988	24703	5210	320.0	397.8
MEAN	13.7	20.4	22.3	50.6	54.5	96.5	663	1000	823	168	10.3	13.3
MAX	45	36	33	75	70	195	1720	1690	1350	584	19	31
MIN	2.1	9.5	11	25	30	57	67	493	365	12	6.0	5.5
AC-FT	845	1210	1370	3110	3130	5930	39470	61460	49000	10330	635	789

CAL YR 1979 TOTAL 34793.9 MEAN 95.3 MAX 1390 MIN 1.8 AC-FT 69010
WTR YR 1980 TOTAL 89386.4 MEAN 244 MAX 1720 MIN 2.1 AC-FT 177300

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT												
11...	1440	--	2.2	560	--	11.0	--	--	--	--	--	--
25...	1330	--	29	510	8.1	8.0	15	10.0	120	250	29	60
NOV												
21...	1435	--	12	540	--	.5	--	--	--	--	--	--
29...	1330	--	18	575	8.1	.0	4	10.6	K10	290	11	72
DEC												
19...	1245	--	28	495	8.1	1.0	4	10.2	78	230	0	61
19...	1355	--	28	510	--	.0	--	--	--	--	--	--
JAN												
23...	1300	--	63	480	7.8	.5	15	9.8	48	240	18	58
23...	1430	--	63	500	--	.0	--	--	--	--	--	--
FEB												
28...	1340	75	--	530	7.8	1.0	25	11.5	K300	230	9	63
MAR												
05...	1445	--	78	485	--	.0	--	--	--	--	--	--
21...	1400	75	--	510	8.3	3.0	20	12.6	K3	230	9	59
APR												
17...	1435	--	382	440	--	4.0	--	--	--	--	--	--
22...	1145	--	1750	300	7.4	4.5	250	11.8	260	--	--	--
23...	1515	--	1540	355	--	3.5	--	--	--	--	--	--
29...	1650	--	1220	385	--	9.5	--	--	--	--	--	--
MAY												
13...	0945	--	857	410	7.4	6.0	35	9.8	26	180	8	41
JUN												
02...	1645	--	832	260	--	--	--	--	--	--	--	--
11...	1645	--	1300	250	8.3	15.0	60	8.0	--	75	0	20
17...	1550	--	755	200	--	16.0	--	--	--	--	--	--
JUL												
08...	1600	--	270	300	8.6	18.0	6	8.6	470	130	0	36
22...	1620	--	15	450	--	24.5	--	--	--	--	--	--
AUG												
06...	1545	--	9.0	630	8.1	22.0	2	11.2	K13	280	42	56
27...	0945	--	8.8	480	--	12.5	--	--	--	--	--	--
SEP												
03...	1820	--	6.0	650	8.1	18.0	--	10.6	51	290	52	55

K-Results based on colony count outside the acceptable range (non-ideal colony count).

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT												
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	23	20	.6	3.5	270	0	220	35	19	.2	7.3	298
NOV												
21...	--	--	--	--	--	--	--	--	--	--	--	--
29...	27	23	.6	2.8	340	0	280	25	23	.3	8.1	353
DEC												
19...	19	18	.5	2.3	280	0	230	21	14	.2	6.7	282
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	23	19	.5	4.8	270	0	220	21	22	.3	9.3	292
23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
28...	18	17	.5	3.0	270	0	220	15	20	.2	7.5	275
MAR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
21...	21	15	.4	2.0	270	0	220	18	25	.2	5.5	276
APR												
17...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
13...	18	9.5	.3	1.5	210	0	170	4.9	12	.2	7.6	200
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
11...	6.0	2.7	.1	.5	92	0	75	4.9	2.4	.1	5.8	88
17...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	10	6.1	.2	1.6	160	0	130	4.9	7.2	.4	6.4	150
22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
06...	33	29	.8	4.0	290	0	240	49	33	.2	7.6	352
27...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	36	26	.7	4.2	290	0	240	61	29	.4	4.8	360

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)
OCT												
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	.41	23.3	.09	.10	.020	.02	.83	.85	.94	4.2	.080	.25
NOV												
21...	--	--	--	--	--	--	--	--	--	--	--	--
29...	.48	17.2	.08	.00	.020	.02	.65	.67	.75	3.3	.050	.15
DEC												
19...	.38	21.3	.02	.00	.040	.05	.52	.56	.58	2.6	.070	.21
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	.40	49.7	.39	.34	.060	.07	.66	.72	1.1	4.9	.110	.34
23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
28...	.37	55.7	.46	.94	.200	.24	.33	.53	.99	4.4	.240	.74
MAR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
21...	.38	55.9	.07	.10	.000	.00	.57	.57	.64	2.8	.150	.46
APR												
17...	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	.22	--	.010	.01	1.9	1.9	2.1	9.4	.710	2.2
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
13...	.27	463	.17	.23	.010	.01	.78	.79	.96	4.3	.120	.37
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
11...	.12	309	3.5	.06	.020	.02	1.4	1.4	4.9	22	.280	.86
17...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
08...	.20	109	.00	.00	.000	.00	.84	.84	.84	3.7	.080	.25
22...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
06....	.48	8.55	.02	.03	.000	.00	.83	.83	.85	3.8	.030	.09
27...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	.49	5.83	.00	.03	.000	.00	.87	.87	.87	3.9	.020	.06

10020200 WOODRUFF NARROWS RESERVOIR NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'10", long 111°00'55", in sec.32, T.18 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, in gate house at Woodruff Narrows Dam on Bear River, 5.6 mi (9.0 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi² (2,031 km²).

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder and mercury manometer. Datum of gage is 6,405 ft (1,952.2 m), from levels by Water and Power Resources Service.

REMARKS.--Records good except those for periods of no gage-height record, Jan. 10 to Apr. 10, Apr. 15 to June 3, Aug. 20 to Sept. 30, which are fair. Reservoir formed by earth-fill, rock faced dam. Lower portion of spillway cut in natural rock. Storage began Jan. 5, 1962. Total capacity, 28,000 acre-ft (34.5 hm³) below spillway crest, which includes 18,240 acre-ft (22.5 hm³) of Compact allocation for irrigation, 4,260 acre-ft (5.25 hm³) of irrigation holdover, 4,000 acre-ft (4.93 hm³) for winter release for fish propogation in Utah, and 1,500 acre-ft (1.85 hm³) of storage for fish propogation in Wyoming. Gage height of spillway is 35.3 ft (10.76 m). Figures given herein represent total contents.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 33,080 acre-ft (40.8 hm³) May 11, 1974, June 10, 1975, gage height, 38.3 ft (11.67 m); minimum observed, 880 acre-ft (1.09 hm³) Sept. 15-25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 22,740 acre-ft (28.0 hm³) Apr. 11, gage height, 31.8 ft (9.693 m); minimum, 4,790 acre-ft (5.91 hm³) Sept. 29.

Capacity table (gage height, in feet, and total contents, in acre-feet)

12	4,120	24	13,360
14	5,370	26	15,570
16	6,780	28	17,770
18	8,360	30	20,180
20	10,000	32	23,040
22	11,600		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5640	6340	7240	8530	12600	16600	21300	19700	20000	14900	7630	5200
2	5570	6410	7300	8530	12700	16700	21500	19400	20000	14700	7550	5200
3	5570	6480	7300	8610	12800	16900	21600	19000	20000	14500	7390	5200
4	5570	6480	7300	8700	13000	17000	21900	18800	20100	14000	7240	5200
5	5570	6560	7400	8780	13100	17100	22000	18400	20300	13600	7090	5200
6	5570	6630	7400	8780	13200	17300	22200	18000	20900	12800	6930	5200
7	5500	6700	7400	8870	13300	17400	22300	17700	21300	12300	6780	5200
8	5500	6780	7400	8950	13500	17600	22500	17300	21600	11500	6630	5200
9	5500	6780	7500	9040	13600	17800	22600	17000	21600	10900	6480	5100
10	5500	6860	7500	9200	13700	17900	22700	16700	21200	10800	6340	5100
11	5500	6860	7500	9400	13800	18000	22700	16400	21000	10800	6190	5100
12	5440	6930	7550	9700	14000	18300	22200	16000	21200	10700	6120	5100
13	5440	6930	7550	9900	14100	18400	21500	15700	21500	10600	6050	5000
14	5440	7010	7550	10100	14300	18500	21000	15300	21600	10500	5980	5000
15	5440	7010	7600	10200	14500	18600	20500	15100	21500	10300	5910	5000
16	5370	7090	7600	10500	14600	18900	20200	14800	21000	10200	5910	5000
17	5370	7090	7600	10800	14700	19000	19800	14500	20200	10000	5840	5000
18	5370	7090	7700	10900	14900	19100	19500	14100	19500	9830	5770	5000
19	5440	7090	7790	11200	15000	19400	19100	13800	18800	9560	5710	5000
20	5640	7090	7790	11400	15100	19600	18800	13600	18300	9210	5600	5000
21	5710	7090	7870	11600	15300	19700	18400	13800	18400	8950	5600	4900
22	5770	7090	7950	11900	15400	19800	18000	14500	18400	8700	5600	4900
23	5840	7090	8030	12000	15600	20000	18400	15300	18300	8530	5500	4900
24	5910	7090	8030	12200	15700	20100	18800	16200	18000	8440	5500	4900
25	5910	7160	8110	12300	15900	20200	19000	17100	17800	8440	5400	4800
26	5980	7160	8190	12400	16000	20400	19400	18000	17600	8360	5400	4800
27	6050	7160	8280	12500	16100	20500	19700	19000	17100	8280	5370	4800
28	6120	7160	8280	12600	16400	20700	20100	20000	16700	8190	5300	4800
29	6190	7200	8360	12600	16500	20900	20400	19600	16100	8110	5300	4800
30	6190	7240	8360	12600	---	21000	20100	20000	15600	7950	5300	4790
31	6260	---	8440	12600	---	21200	---	20000	---	7790	5300	---
MAX	6260	7240	8440	12600	16500	21200	22700	20000	21600	14900	7630	5200
MIN	5370	6340	7240	8530	12600	16600	18000	13600	15600	7790	5300	4790
(†)	15.3	16.6	18.1	23.1	26.8	30.7	(a)30.2	(a)29.8	26.0	17.3	(a)13.9	(a)13.1
(‡)	+620	+980	+1200	+4130	+3920	+4690	-1120	-100	-4390	-7780	-2490	-510

CAL YR 1979 . . . . . -8270
WTR YR 1980 . . . . . -850

(†) Gage height, in feet, at 2400 of last day of month.
(‡) Change in contents, in acre-feet.
(a) Estimated.

10020300 BEAR RIVER BELOW RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°30'20", long 111°00'50", in NW¼NW¼ sec.32, T.18 N., R.120 W., Uinta County, WY, Hydrologic Unit 16010101, on right bank 1,100 ft (340 m) downstream from Woodruff Narrows Dam, 1.6 mi (2.6 km) upstream from Salt Creek, 5.4 mi (8.7 km) upstream from Wyoming-Utah State line, and 7.7 mi (12.4 km) east of Woodruff.

DRAINAGE AREA.--784 mi^2 (2,031 km^2).

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORD.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6,398.96 ft (1,950.403 m), National Geodetic Vertical Datum of 1929 (levels by Utah Water Resources Division from Water and Power Resources Service bench mark). Prior to Sept. 26, 1962, at site 175 ft (53.3 m) upstream at same datum.

REMARKS.--Records good. Flow regulated by Woodruff Narrows Reservoir (see sta 10020200) beginning January 1962. Diversions for irrigation of about 43,500 acres (176 km^2) above station.

AVERAGE DISCHARGE.--19 years, 226 ft^3/s (6.40 m^3/s), 163,700 acre-ft/yr (202 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,000 ft^3/s (85.0 m^3/s) June 14, 1965, gage height, 7.88 ft (2.402 m); no flow July 4, 5, 1962, Aug. 30, 31, Sept. 1, 2, 6, 7, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,260 ft^3/s (35.7 m^3/s) Apr. 18, 23, gage height, 5.92 ft (1.804 m); minimum, 0.30 ft^3/s (0.008 m^3/s) Mar. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	6.8	6.2	5.9	9.4	9.7	25	1240	780	714	76	26
2	6.3	6.8	6.1	6.1	9.6	9.7	24	1250	779	700	76	26
3	6.6	6.7	6.1	6.2	9.5	9.7	24	1250	782	689	75	26
4	6.6	6.5	6.1	6.1	9.6	9.7	24	1250	786	678	73	26
5	6.6	6.5	6.3	6.3	10	9.8	24	1240	789	667	71	26
6	6.6	6.3	6.2	6.1	12	10	24	1240	855	657	74	26
7	6.6	6.3	5.9	6.1	14	10	24	1230	905	645	75	26
8	6.6	6.4	5.7	6.2	16	10	25	1230	900	627	74	26
9	6.8	6.4	5.7	7.3	16	10	16	1230	1000	432	72	26
10	6.6	6.3	5.7	8.6	16	10	10	1230	1160	229	72	25
11	6.6	6.3	5.8	6.6	16	10	197	1230	1160	209	52	19
12	6.5	6.3	5.7	9.5	16	10	499	1220	1170	198	31	8.1
13	6.4	6.2	5.7	9.7	16	10	492	1210	1160	198	31	7.7
14	6.3	6.2	5.7	9.0	16	10	486	1200	1160	198	31	7.5
15	6.3	6.5	5.7	10	16	10	549	1180	1140	191	30	7.3
16	6.2	6.5	5.7	7.4	16	10	648	1070	1150	165	30	7.2
17	6.2	6.5	5.7	5.1	17	10	723	1000	1140	153	30	7.3
18	6.4	6.5	5.8	12	13	10	1140	996	1130	155	30	6.6
19	6.4	6.6	6.0	22	8.3	10	1250	871	1120	155	30	3.8
20	6.3	6.7	6.1	5.2	10	12	1240	737	978	159	31	3.5
21	6.5	6.6	6.1	5.6	9.9	19	1240	738	828	124	31	3.5
22	6.6	6.8	6.1	8.8	9.8	20	1240	743	821	54	30	3.8
23	6.5	6.8	6.1	8.8	9.6	20	1250	758	823	38	29	3.9
24	6.3	6.7	6.1	8.7	9.8	20	1250	774	826	37	29	4.2
25	6.4	6.4	6.1	11	9.9	20	1240	794	807	36	28	6.5
26	6.5	6.3	6.1	11	10	21	1250	801	792	36	27	9.3
27	6.2	6.3	6.3	10	10	25	1250	794	788	37	26	9.6
28	6.4	6.3	6.2	10	10	25	1250	786	778	48	26	9.6
29	6.5	6.1	6.2	10	10	24	1240	785	766	77	26	9.6
30	6.6	6.2	6.0	15	---	24	1240	786	744	76	26	9.6
31	6.6	---	5.9	13	---	24	---	779	---	76	26	---
TOTAL	200.1	193.8	185.1	273.3	355.4	442.6	19894	31642	28017	8458	1368	406.6
MEAN	6.45	6.46	5.97	8.82	12.3	14.3	663	1021	934	273	44.1	13.6
MAX	6.8	6.8	6.3	22	17	25	1250	1250	1170	714	76	26
MIN	6.1	6.1	5.7	5.1	8.3	9.7	10	737	744	36	26	3.5
AC-FT	397	384	367	542	705	878	39460	62760	55570	16780	2710	806

CAL YR 1979 TOTAL 40536.52 MEAN 111 MAX 953 MIN .00 AC-FT 80400
WTR YR 1980 TOTAL 91435.90 MEAN 250 MAX 1250 MIN 3.5 AC-FT 181400

10026500 BEAR RIVER NEAR RANDOLPH, UT

LOCATION.--Lat 41°48'02", long 111°04'20", in SE¼NE¼ sec.7, T.12 N., R.8 E., Rich County, Hydrologic Unit 16010101, on left bank 3.7 mi (6.0 km) upstream from Twin Creek, 5.0 mi (8.0 km) upstream from Utah-Wyoming State line, and 11 mi (18 km) northeast of Randolph.

DRAINAGE AREA.--1,616 mi^2 (4,185 km^2).

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,200 ft (1,889.8 m), from river-profile map. Prior to Aug. 17, 1971, 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter months, which are fair. Diversion for irrigation of about 94,500 acres (382 km^2) above station. Flow regulated by upstream reservoirs.

AVERAGE DISCHARGE.--37 years, 196 ft^3/s (5.55 m^3/s), 142,000 acre-ft/yr (175 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,660 ft^3/s (75.3 m^3/s) May 8, 1952; maximum gage height, 8.99 ft (2.740 m) June 17, 1965, site and datum then in use; minimum discharge, 1.6 ft^3/s (0.05 m^3/s) Nov. 12, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,280 ft^3/s (36.2 m^3/s) May 14, gage height, 6.40 ft (1.951 m); minimum, 14 ft^3/s (0.396 m^3/s) Nov. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	33	20	44	110	120	114	1140	530	353	78	48
2	22	34	21	46	110	120	112	1150	573	435	76	46
3	22	34	22	46	120	130	107	1160	683	477	76	45
4	21	26	22	46	120	130	109	1160	789	484	84	46
5	22	22	22	46	140	130	130	1150	834	479	84	46
6	22	26	22	46	160	140	131	1150	804	433	84	35
7	23	26	22	48	170	140	119	1160	751	410	80	45
8	22	26	23	50	180	140	116	1170	745	408	81	47
9	22	26	24	50	170	150	117	1200	745	442	85	47
10	23	25	25	50	150	150	133	1220	742	456	85	49
11	23	31	25	50	150	151	127	1160	736	368	86	35
12	23	31	25	65	160	142	124	1180	766	297	85	35
13	23	36	25	90	170	137	206	1260	783	274	81	39
14	24	36	25	110	190	156	337	1270	768	253	72	36
15	23	36	25	150	190	206	404	1240	771	256	72	34
16	24	36	25	170	190	184	475	1230	768	219	73	33
17	24	35	25	160	190	173	556	1210	754	213	76	32
18	25	31	28	170	160	155	624	1240	739	216	70	32
19	31	26	30	170	130	142	739	1140	731	231	70	30
20	39	25	31	200	120	134	878	1040	725	208	69	31
21	36	23	33	200	120	138	984	834	711	205	68	31
22	33	22	34	190	110	131	987	736	627	227	67	31
23	33	20	34	190	110	128	1020	640	443	197	64	31
24	33	20	32	190	100	124	1040	624	477	166	61	31
25	32	20	32	170	100	121	1020	632	433	162	58	31
26	31	22	35	150	100	120	1030	664	406	134	58	31
27	31	22	37	140	110	120	1030	659	425	117	55	30
28	31	21	34	130	110	117	1030	645	347	114	53	30
29	31	20	36	130	120	114	1060	601	357	98	52	30
30	32	20	38	120	---	117	1100	533	353	81	49	30
31	33	---	40	110	---	116	---	508	---	79	48	---
TOTAL	836	811	872	3527	4060	4276	15959	30706	19316	8492	2200	1097
MEAN	27.0	27.0	28.1	114	140	138	532	991	644	274	71.0	36.6
MAX	39	36	40	200	190	206	1100	1270	834	484	86	49
MIN	21	20	20	44	100	114	107	508	347	79	48	30
AC-FT	1660	1610	1730	7000	8050	8480	31650	60910	38310	16840	4360	2180

CAL YR 1979 TOTAL 23973 MEAN 65.7 MAX 356 MIN 13 AC-FT 47550
WTR YR 1980 TOTAL 92152 MEAN 252 MAX 1270 MIN 20 AC-FT 182800

10027000 TWIN CREEK AT SAGE, WY

LOCATION.--Lat 41°48'36", long 110°58'12", in NE¼SW¼SE¼ sec.7, T.21 N., R.119 W., Lincoln County, Hydrologic Unit 16010101, on right bank 0.5 mi (0.8 km) downstream from Bulldog Hollow, 0.5 mi (0.8 km) southwest of Sage, 0.8 mi (1.3 km) southeast of junction of U.S. Highway 30 and State Highway 89, and 5.0 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--246 mi² (637 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1943 to September 1962, July 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 6,320 ft (1,926 m), from topographic map. Prior to Oct. 1, 1945, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum. Oct. 1, 1945, to Sept. 30, 1962, water-stage recorder at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except theose for winter months, which are poor. Diversions for irrigation of about 1,100 acres (4.45 km²) above station.

AVERAGE DISCHARGE.--23 years (water years 1944-62, 1977-80), 19.0 ft³/s (0.538 m³/s), 13,770 acre-ft/yr (17.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 853 ft³/s (24.2 m³/s) Apr. 23, 1980, gage height, 8.13 ft (2.478 m); minimum daily, 0.6 ft³/s (0.02 m³/s) Mar. 18, 1953, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 853 ft³/s (24.2 m³/s) Apr. 23, gage height, 8.13 ft (2.478 m); minimum daily, 2.6 ft³/s (0.074 m³/s) Oct. 8, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	6.0	5.8	5.9	5.4	9.0	12	291	94	32	12	17
3	4.3	6.5	6.5	5.6	6.5	11	12	180	126	40	14	14
4	4.0	7.2	6.7	5.6	7.5	15	14	166	98	36	16	13
5	3.8	8.0	7.0	6.2	6.5	18	20	175	84	34	18	14
6	3.8	7.4	7.2	5.4	7.0	15	19	157	76	28	16	12
7	3.4	7.7	7.6	5.9	7.0	11	16	163	72	27	17	12
8	2.6	7.7	7.8	6.2	6.0	10	16	164	69	27	16	12
9	2.6	7.4	8.0	6.2	5.6	11	19	195	65	28	16	12
10	2.9	6.2	8.0	5.0	5.0	12	26	170	61	26	17	12
11	2.9	6.0	7.0	5.0	5.4	14	26	147	59	26	17	13
12	3.0	6.4	6.6	6.0	5.7	13	36	199	48	26	16	14
13	3.8	6.6	6.8	10	6.0	12	59	193	45	26	17	16
14	4.0	6.8	7.4	25	6.4	20	115	138	40	26	17	14
15	4.5	6.6	7.7	30	6.8	30	234	130	41	25	16	12
16	4.5	6.4	7.7	20	6.5	20	408	182	38	24	19	12
17	4.7	6.2	6.8	15	6.8	15	442	207	38	20	18	14
18	4.9	6.0	6.5	11	8.6	14	566	175	38	17	19	14
19	8.0	5.8	6.2	7.0	24	13	672	123	36	18	17	12
20	16	5.6	6.5	6.0	35	16	714	111	35	18	17	16
21	9.3	5.6	6.8	5.6	22	17	742	106	34	17	18	17
22	7.4	5.6	6.8	5.4	15	17	771	101	32	16	19	17
23	7.4	6.2	7.4	5.2	12	17	778	105	30	17	18	18
24	7.7	6.0	7.1	5.0	8.0	16	535	122	31	18	17	18
25	7.7	5.8	7.4	4.9	7.0	16	260	120	31	17	17	18
26	7.4	5.6	7.4	4.8	6.0	14	270	113	30	16	36	17
27	7.1	5.4	7.1	4.7	5.0	13	230	99	27	13	21	17
28	6.8	5.2	6.8	4.6	6.0	13	204	90	27	13	20	18
29	6.8	5.4	6.8	4.5	7.0	14	194	90	27	13	19	18
30	7.1	5.6	6.8	4.7	---	14	204	93	30	13	17	17
31	6.5	---	6.2	5.0	---	12	---	89	---	12	17	---
TOTAL	173.7	188.5	216.6	247.3	261.7	450.0	7625	4606	1567	714	546	446
MEAN	5.60	6.28	6.99	7.98	9.02	14.5	254	149	52.2	23.0	17.6	14.9
MAX	16	8.0	8.0	30	35	30	778	291	126	45	36	18
MIN	2.6	5.2	5.8	4.5	5.0	8.0	11	89	27	12	12	12
AC-FT	345	374	430	491	519	893	15120	9140	3110	1420	1080	885

CAL YR 1979 TOTAL 5511.8 MEAN 15.1 MAX 172 MIN 2.6 AC-FT 10930
WTR YR 1980 TOTAL 17041.8 MEAN 46.6 MAX 778 MIN 2.6 AC-FT 33800

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN DEMAND, BIOCHEM UNINHIB 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT												
04...	1240	--	4.0	1100	--	8.5	25	--	--	--	--	--
25...	1150	--	7.6	1070	8.2	5.0	25	9.5	2.4	K20	460	220
NOV												
05...	1350	--	7.6	860	--	3.0	80	--	--	--	--	--
29...	1200	5.4	--	1020	8.0	.0	25	10.2	3.0	22	460	170
30...	1140	5.6	--	1100	--	.0	30	--	--	--	--	--
DEC												
19...	1115	--	6.5	970	8.0	.5	20	10.6	2.4	21	480	220
JAN												
02...	1100	--	6.5	1320	--	.0	30	--	--	--	--	--
23...	1130	5.2	--	880	7.8	.0	25	11.4	3.0	26	400	190
FEB												
08...	1215	--	5.9	1050	--	.0	75	--	--	--	--	--
28...	1110	--	3.6	1050	--	1.0	140	--	--	--	--	--
28...	1215	--	2.7	1020	7.9	1.5	35	11.6	3.2	K12	410	160
MAR												
24...	1100	--	18	950	8.2	1.5	55	11.3	3.6	K3	370	150
APR												
07...	1025	--	16	950	--	1.0	750	--	--	--	--	--
15...	0855	--	135	460	--	2.0	5000	--	--	--	--	--
17...	0830	--	341	330	--	.0	5400	--	--	--	--	--
23...	1815	--	698	450	7.6	6.0	900	9.4	3.1	--	210	120
MAY												
12...	1430	--	207	870	8.2	6.0	400	10.1	2.5	380	350	120
JUN												
11...	0910	--	58	1000	8.5	14.0	45	7.9	2.4	140	390	120
JUL												
08...	0915	--	27	800	8.4	15.0	30	8.2	--	270	410	150
23...	1220	--	18	890	--	19.0	750	--	--	--	--	--
AUG												
06...	0850	--	12	900	7.9	14.0	25	7.2	1.6	370	360	160
SEP												
03...	0910	--	14	920	8.1	11.0	30	8.7	1.7	240	370	160

K-Results based on colony count outside the acceptable range (non-ideal colony count).

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
25...	97	54	65	1.3	5.3	240	280	38	.4	11	695	.95
NOV												
05...	--	--	--	--	--	--	--	--	--	--	--	--
29...	97	53	65	1.3	4.4	290	270	35	.5	14	714	.97
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	110	50	48	1.0	1.0	260	260	37	.4	13	676	.92
JAN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
23...	94	40	50	1.1	5.5	210	240	32	.4	13	601	.82
FEB												
08...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	93	44	63	1.3	4.4	250	260	42	.4	12	669	.91
MAR												
24...	81	40	66	1.5	5.1	220	230	37	.3	11	603	.82
APR												
07...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
23...	53	19	25	.8	4.6	94	140	11	.3	6.6	319	.43
MAY												
12...	75	40	55	1.3	4.2	230	200	22	.3	12	547	.74
JUN												
11...	83	44	45	1.0	3.4	270	190	23	.4	12	563	.77
JUL												
08...	85	49	49	1.0	3.5	260	220	28	.5	14	605	.82
23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
06...	70	45	47	1.1	2.6	200	230	29	.6	8.2	553	.75
SEP												
03...	74	44	48	1.1	3.6	210	240	28	.4	8.6	573	.78

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
25...	14.3	.15	.120	.15	.70	.82	.97	4.3	.050	.15	6.3	.2
NOV												
05...	--	--	--	--	--	--	--	--	--	--	--	--
29...	10.4	.36	.060	.07	.46	.52	.88	3.9	.040	.12	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	11.9	.20	.040	.05	.51	.55	.75	3.3	.040	.12	--	--
JAN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
23...	8.44	.35	.080	.10	.42	.50	.85	3.8	.100	.31	--	--
FEB												
08...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	4.88	.81	.150	.18	.23	.38	1.2	5.3	.120	.37	--	--
MAR												
24...	29.3	.15	.040	.05	.96	1.0	1.2	5.1	.180	.55	--	--
APR												
07...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
23...	601	.30	.380	.46	3.0	3.4	3.7	16	3.800	12	10	1.3
MAY												
12...	306	.07	.030	.04	1.5	1.5	1.6	7.0	.770	2.4	--	--
JUN												
11...	88.2	.03	.040	.05	.67	.71	.74	3.3	.120	.37	--	--
JUL												
08...	44.1	.14	.030	.04	.59	.62	.76	3.4	.000	.00	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
06...	17.9	.14	.030	.04	.53	.56	.70	3.1	.060	.18	--	--
SEP												
03...	21.7	.04	.000	.00	.69	.69	.73	3.2	.090	.28	--	--

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)
OCT 25...	1150	740	740	0	2	0	2	0	0	<1	110	3
NOV 29...	1200	--	--	--	--	--	--	--	--	--	110	--
DEC 19...	1115	--	--	--	--	--	--	--	--	--	140	--
JAN 23...	1130	--	--	--	--	--	--	--	--	--	120	--
FEB 28...	1215	--	--	--	--	--	--	--	--	--	100	--
MAR 24...	1100	--	--	--	--	--	--	--	--	--	110	--
APR 23...	1815	15000	15000	0	14	11	--	0	0	0	--	2
MAY 12...	1430	--	--	--	--	--	--	--	--	--	100	--
JUN 11...	0910	930	910	20	4	1	3	0	--	<1	90	0
JUL 08...	0915	--	--	--	--	--	--	--	--	--	70	--
AUG 06...	0850	--	--	--	--	--	--	--	--	--	100	--
SEP 03...	0910	--	--	--	--	--	--	--	--	--	110	--

DATE	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
OCT 25...	2	<1	0	0	0	13	13	0	480	--	60	3
NOV 29...	--	--	--	--	--	--	--	--	--	--	170	--
DEC 19...	--	--	--	--	--	--	--	--	--	--	10	--
JAN 23...	--	--	--	--	--	--	--	--	--	--	20	--
FEB 28...	--	--	--	--	--	--	--	--	--	--	10	--
MAR 24...	--	--	--	--	--	--	--	--	--	--	50	--
APR 23...	1	--	30	30	0	38	28	--	33000	31000	--	38
MAY 12...	--	--	--	--	--	--	--	--	--	--	140	--
JUN 11...	--	<1	0	0	0	7	1	6	970	940	30	4
JUL 08...	--	--	--	--	--	--	--	--	--	--	30	--
AUG 06...	--	--	--	--	--	--	--	--	--	--	50	--
SEP 03...	--	--	--	--	--	--	--	--	--	--	20	--

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	LITHIUM TOTAL RECOV- ERABLE (UG/L AS LI)	LITHIUM SUS- PENDED RECOV- ERABLE (UG/L AS LI)	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO)
OCT												
25...	3	0	60	0	60	30	20	10	.0	.0	.0	7
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
23...	29	--	80	50	--	1500	1400	--	.2	.2	.0	3
MAY												
12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
11...	0	6	50	0	50	90	60	30	.0	.0	.0	11
JUL												
08...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB- DENUM, SUS- PENDED RECOV. (UG/L AS MO)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT												
25...	0	<10	5	5	0	2	1	1	1.0	10	1	9
NOV												
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
19...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
23...	2	--	37	32	--	3	1	--	--	260	230	--
MAY												
12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
11...	--	<10	5	2	3	1	0	1	2.0	90	50	40
JUL												
08...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	--	--	--	--	--	--	--	--	--	--	--	--

10027000 TWIN CREEK AT SAGE, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW (CFS)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM	SED. SUSP. FALL DIAM. % FINER THAN .500 MM
OCT												
04...	1240	8.5	--	4.0	34	.37	--	--	--	--	--	--
NOV												
05...	1350	3.0	--	7.6	57	1.2	--	--	--	--	--	--
30...	1140	.0	5.6	--	62	.94	--	--	--	--	--	--
JAN												
02...	1100	.0	--	6.5	68	1.2	--	--	--	--	--	--
FEB												
08...	1215	.0	--	5.9	124	2.0	--	--	--	--	--	--
28...	1110	1.0	--	3.6	136	1.3	--	--	--	--	--	--
MAR												
24...	1100	1.5	--	18	143	6.9	--	--	--	--	--	--
APR												
07...	1025	1.0	--	16	221	9.5	--	--	--	--	--	--
15...	0855	2.0	--	135	3000	1090	48	63	85	96	100	--
17...	0830	.0	--	341	3340	3080	47	62	85	95	99	100
23...	1815	6.0	--	698	4120	7770	62	83	96	99	100	--
MAY												
12...	1430	6.0	--	207	1500	838	--	--	--	--	--	--
JUN												
11...	0910	14.0	--	58	140	22	--	--	--	--	--	--
JUL												
08...	0915	15.0	--	27	140	10	--	--	--	--	--	--
23...	1220	19.0	--	18	144	7.0	--	--	--	--	--	--
AUG												
06...	0850	14.0	--	12	89	2.9	--	--	--	--	--	--
SEP												
03...	0910	11.0	--	14	110	4.2	--	--	--	--	--	--

DATE	NUMBER OF SAM-PLING POINTS	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
05...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
FEB												
08...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
24...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
07...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
12...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
11...	--	2	2	4	12	17	23	30	41	62	94	100
JUL												
08...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
06...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
03...	15	44	69	94	97	98	99	99	100	--	--	--

10028500 BEAR RIVER BELOW PIXLEY DAM, NEAR COKEVILLE, WY

LOCATION.--Lat 41°56'20", long 110°59'05", in SE¼SE¼ sec.25, T.23 N., R.120 W., Lincoln County, Hydrologic Unit 16010102, 800 ft (243 m) downstream from Pixley Dam, 11 mi (18 km) south of Cokeville, and 17.5 mi (28.2 km) downstream from Twin Creek.

DRAINAGE AREA.--2,032 mi^2 (5,263 km^2).

PERIOD OF RECORD.--October 1941 to November 1943 (published as Bear River near Cokeville), October 1952 to September 1956, May 1958 to current year (irrigation seasons only). Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,185 ft (1,885.2 m), from river-profile map. Oct. 31, 1941, to Nov. 30, 1943, at site 200 ft (61 m) downstream at different datum.

REMARKS.--Records good. Natural flow of stream affected by diversions for irrigation, return flow from irrigated areas, and regulation by upstream reservoirs.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,300 ft^3/s (65.1 m^3/s) Mar. 25, 1956; minimum daily recorded, 0.3 ft^3/s (0.008 m^3/s) Aug. 21, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,370 ft^3/s (38.8 m^3/s) May 15-19; minimum recorded, 8.2 ft^3/s (0.232 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								1320	588	255	80	69
2								1320	630	267	89	68
3								1320	696	286	86	65
4								1310	747	301	94	60
5								1310	785	449	99	45
6								1300	798	501	131	54
7								1300	801	435	110	49
8								1300	770	427	103	54
9								1310	770	437	108	53
10								1310	770	453	109	58
11								1320	757	445	106	50
12								1320	742	390	109	24
13								1320	737	347	105	20
14								1350	737	354	103	23
15								1370	735	402	97	21
16								1370	742	333	99	17
17								1370	747	305	99	17
18								1370	735	267	103	15
19								1370	720	286	97	12
20								1340	711	283	95	11
21								1240	672	262	95	11
22								1030	675	269	95	11
23								853	651	262	87	11
24								793	588	232	83	9.5
25								793	455	199	80	9.5
26								798	342	184	80	9.1
27								806	329	144	84	9.5
28								713	283	133	78	8.6
29								634	283	130	73	8.6
30								625	238	116	70	8.2
31								599	---	84	70	---
TOTAL								35484	19234	9238	2917	881.0
MEAN								1145	641	298	94.1	29.4
MAX								1370	801	501	131	69
MIN								599	238	84	70	8.2
AC-FT								70380	38150	18320	5790	1750

BEAR RIVER BASIN

10032000 SMITHS FORK NEAR BORDER, WY

LOCATION.--Lat 42°17'16", long 110°52'14", in NW¼ sec.33, T.27 N., R.118 W., Lincoln County, Hdyrologic Unit 16010102, on left bank 4.5 mi (7.2 km) upstream from Howland Creek, 6 mi (10 km) downstream from Hobble Creek, and 12 mi (19 km) northeast of Border.

DRAINAGE AREA.--165 mi² (427 km²).

PERIOD OF RECORD.--May 1942 to current year.

REVISED RECORDS.--WSP 1734; 1952(M).

GAGE.--Water-stage recorder. Altitude of gage is 6,680 ft (2,036 m), from topographic map. Prior to Oct. 16, 1945, at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair. One diversion for irrigation of about 200 acres (809,000 m²) above station.

AVERAGE DISCHARGE.--38 years, 196 ft³/s (5.55 m³/s), 142,000 acre-ft/yr (175 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,610 ft³/s (45.6 m³/s) June 18, 1971, gage height, 5.61 ft (1.710 m); minimum, 21 ft³/s (0.59 m³/s) Mar. 29, 1975, Jan. 24, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 998 ft³/s (28.3 m³/s) May 24, gage height, 4.51 ft (1.375 m); minimum, 23 ft³/s (0.651 m³/s) Mar. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	74	45	55	45	52	50	773	577	515	213	131
2	81	80	48	60	50	56	48	782	602	483	208	128
3	80	76	50	60	60	54	49	761	685	464	202	125
4	80	76	55	60	70	53	49	786	696	441	197	124
5	80	75	60	62	65	52	52	858	702	417	193	122
6	79	71	65	58	65	52	56	868	695	397	188	120
7	79	72	66	60	70	48	51	916	686	382	184	121
8	80	70	66	65	73	51	47	916	683	376	181	121
9	79	70	64	65	50	51	52	911	716	361	178	120
10	79	71	60	70	45	50	54	839	798	346	172	120
11	79	73	55	60	45	49	50	746	874	334	169	131
12	78	72	50	50	45	51	52	686	918	323	168	136
13	78	70	50	50	50	50	50	626	913	315	166	123
14	77	70	55	55	55	50	54	586	884	305	164	118
15	78	70	55	60	58	52	62	568	824	297	172	115
16	84	70	60	60	58	50	68	578	751	288	177	112
17	80	70	65	62	56	43	73	571	719	279	165	111
18	80	72	65	84	58	58	85	557	718	274	158	109
19	122	69	65	102	58	51	104	577	718	274	156	108
20	109	71	65	91	57	51	135	606	735	264	156	108
21	89	70	65	91	63	50	170	702	723	258	151	109
22	85	70	64	70	54	49	223	822	697	253	146	108
23	84	70	68	65	54	50	327	917	678	247	143	106
24	83	70	65	65	52	49	350	953	657	245	141	105
25	82	75	60	70	50	50	312	873	627	242	143	103
26	82	73	65	75	63	49	371	775	601	235	157	102
27	80	77	60	80	54	47	409	708	578	230	141	101
28	79	65	60	70	53	48	467	660	543	225	139	100
29	78	50	55	60	53	50	554	644	511	222	132	99
30	75	45	50	50	---	51	777	608	493	220	131	98
31	73	---	50	45	---	52	---	598	---	216	134	---
TOTAL	2554	2107	1826	2030	1629	1569	5201	22771	21002	9728	5125	3434
MEAN	82.4	70.2	58.9	65.5	56.2	50.6	173	735	700	314	165	114
MAX	122	80	68	102	73	58	777	953	918	515	213	136
MIN	73	45	45	45	45	43	47	557	493	216	131	98
AC-FT	5070	4180	3620	4030	3230	3110	10320	45170	41660	19300	10170	6810

CAL YR 1979 TOTAL 57207 MEAN 157 MAX 886 MIN 45 AC-FT 113500
WTR YR 1980 TOTAL 78976 MEAN 216 MAX 953 MIN 43 AC-FT 156600

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE¼NE¼ sec.15, T.14 S., R.46 E., Bear Lake County, ID, Hydrologic Unit 16010102, on left bank 0.2 mi (0.3 km) west of Idaho-Wyoming State line, 0.5 mi (0.8 km) west of Border, and 2.1 mi (3.4 km) upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi² (6,439 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft (1,844.537 m), National Geodetic Vertical Datum of 1929, unadjusted.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by regulation by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--43 years, 422 ft³/s (12.0 m³/s), 305,700 acre-ft/yr (377 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft³/s (104 m³/s) May 11, 1952, gage height, 8.89 ft (2.710 m); minimum, 24 ft³/s (0.68 m³/s) Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,700 ft³/s (76.5 m³/s) May 10, gage height, 8.10 ft (2.469 m); minimum, 78 ft³/s (2.21 m³/s) Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	162	90	110	90	450	300	2260	1330	725	269	178
2	92	153	95	120	110	400	286	2350	1350	769	269	185
3	92	154	100	120	140	380	279	2380	1570	818	279	187
4	94	154	110	120	160	380	279	2350	1640	818	269	181
5	94	158	120	120	140	360	288	2350	1660	833	250	176
6	95	156	130	120	150	360	331	2420	1680	1010	247	189
7	95	151	140	110	160	370	368	2530	1660	924	274	180
8	94	149	150	110	130	380	339	2580	1630	872	255	181
9	94	156	150	120	110	380	327	2670	1590	849	245	180
10	85	139	140	130	100	370	324	2680	1560	830	243	185
11	84	156	120	100	100	360	355	2670	1610	818	238	194
12	82	140	100	100	100	350	381	2610	1630	780	236	215
13	84	140	100	110	120	360	411	2580	1630	715	234	199
14	81	140	110	150	130	350	478	2440	1610	694	232	183
15	80	140	110	200	140	400	725	2330	1550	743	234	176
16	82	140	110	500	140	465	888	2290	1520	697	255	174
17	85	150	120	800	140	503	1030	2350	1480	632	269	174
18	81	176	120	800	140	428	1220	2350	1420	612	255	179
19	95	160	120	750	160	410	1360	2300	1390	558	257	174
20	151	150	120	450	210	370	1450	2250	1370	574	276	172
21	163	150	120	250	300	363	1450	2220	1320	539	262	171
22	174	140	130	230	450	341	1600	2180	1280	507	234	169
23	198	140	130	240	550	336	1780	2100	1260	507	194	167
24	180	140	120	250	600	329	1970	2020	1160	478	176	162
25	172	150	110	260	700	365	2130	1990	1110	443	172	174
26	171	160	120	270	750	355	2210	1900	952	419	180	176
27	163	130	110	200	800	329	2300	1770	833	394	183	178
28	156	110	100	150	600	310	2230	1670	754	348	178	180
29	153	95	100	130	500	295	2170	1510	733	329	176	181
30	151	90	95	110	---	300	2150	1440	704	317	172	183
31	153	---	95	90	---	307	---	1380	---	305	174	---
TOTAL	3666	4329	3585	7320	7920	11456	31409	68920	40986	19857	7187	5403
MEAN	118	144	116	236	273	370	1047	2223	1366	641	232	180
MAX	198	176	150	800	800	503	2300	2680	1680	1010	279	215
MIN	80	90	90	90	90	295	279	1380	704	305	172	162
AC-FT	7270	8590	7110	14520	15710	22720	62300	136700	81300	39390	14260	10720

CAL YR 1979 TOTAL 85993 MEAN 236 MAX 747 MIN 80 AC-FT 170600
WTR YR 1980 TOTAL 212038 MEAN 579 MAX 2680 MIN 80 AC-FT 420600

10039500 BEAR RIVER AT BORDER, WY--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1965 to September 1976, January 1978 to current year.
WATER TEMPERATURES: October 1965 to September 1976, January 1978 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,580 micromhos Dec. 27, 1975; minimum daily, 312 micromhos Apr. 3, 1969.
WATER TEMPERATURES: Maximum, 23.5°C Aug. 14, 1980; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 670 micromhos Mar. 20, 29, 31; minimum daily, 319 micromhos Feb. 22.
WATER TEMPERATURES: Maximum, 23.5°C Aug. 14; minimum, 0.0°C on many days during winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)
OCT											
17...	1605	84	560	--	8.5	--	--	--	--	--	--
25...	0840	172	585	8.1	5.0	20	9.3	9	K24	440	270
NOV											
15...	1730	144	560	--	.5	--	--	--	--	--	--
29...	0815	194	650	8.0	.0	7	11.6	35	23	62	320
DEC											
19...	0820	130	630	8.0	.5	6	11.2	17	4	90	280
21...	1035	120	620	--	.0	--	--	--	--	--	--
JAN											
23...	0900	154	520	7.6	.0	35	10.2	110	K4	310	230
FEB											
07...	1335	163	610	--	.0	--	--	--	--	--	--
28...	0900	283	395	7.5	.0	25	9.1	61	K30	330	170
MAR											
19...	1530	410	550	--	2.0	--	--	--	--	--	--
24...	1430	319	600	7.8	2.5	200	10.8	17	3	130	250
APR											
18...	1450	1240	520	--	9.0	--	--	--	--	--	--
24...	1015	1960	490	7.6	7.0	3300	7.8	76	180	370	200
MAY											
02...	1330	2330	500	--	10.5	--	--	--	--	--	--
12...	1200	2600	580	7.8	8.0	25	8.0	47	50	80	230
JUN											
06...	0900	1670	600	--	12.5	--	--	--	--	--	--
11...	1130	1600	600	8.2	16.0	40	8.3	24	440	--	230
19...	1020	1380	520	--	16.5	--	--	--	--	--	--
JUL											
08...	1130	856	625	8.2	17.5	25	8.4	36	83	32	280
24...	1720	464	580	--	20.0	--	--	--	--	--	--
AUG											
06...	1130	245	600	7.7	18.0	9	8.1	16	140	K20	260
28...	1305	180	540	--	15.0	--	--	--	--	--	--
SEP											
03...	1310	190	580	7.9	16.0	10	8.8	8	K40	K13	250

K-Results based on colony count outside the acceptable range (non-ideal colony count).

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)
OCT											
17...	--	--	--	--	--	--	--	--	--	--	--
25...	58	66	25	27	.7	2.4	260	0	210	78	25
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
29...	89	80	29	26	.6	2.5	300	0	230	85	26
DEC											
19...	54	71	26	24	.6	3.6	280	0	230	78	30
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
23...	33	57	22	22	.6	11	260	0	200	59	23
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	32	44	15	13	.4	7.7	160	0	140	33	12
MAR											
19...	--	--	--	--	--	--	--	--	--	--	--
24...	49	57	26	32	.9	4.0	250	0	200	68	31
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
24...	52	48	20	26	.8	4.7	210	0	150	65	25
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
12...	42	55	23	21	.6	3.5	260	0	190	52	17
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
11...	14	51	26	26	.7	2.9	250	0	220	43	22
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	28	62	30	30	.8	3.1	300	0	250	60	27
24...	--	--	--	--	--	--	--	--	--	--	--
AUG											
06...	40	63	25	26	.7	1.8	270	0	220	63	26
28...	--	--	--	--	--	--	--	--	--	--	--
SEP											
03...	50	64	22	23	.6	2.0	250	0	200	70	24

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
OCT											
17...	--	--	--	--	--	--	--	--	--	--	--
25...	.2	8.6	356	359	.49	167	--	.22	.14	.080	.030
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
29...	.2	10	407	398	.54	208	--	.30	.26	.170	.330
DEC											
19...	.2	9.5	343	381	.52	134	4	.17	.16	.110	.090
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
23...	.2	12	356	329	.45	137	64	.54	.61	.130	.070
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	.1	7.6	229	220	.30	168	43	1.5	.66	.500	.020
MAR											
19...	--	--	--	--	--	--	--	--	--	--	--
24...	.1	9.9	357	349	.47	301	92	.08	.10	.150	.080
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
24...	.2	16	295	297	.40	1570	1020	.24	.17	.230	.040
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
12...	.1	9.6	315	296	.40	2080	--	.05	.07	.040	.010
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
11...	.2	9.2	310	317	.43	1370	79	.07	.91	.040	.000
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	.2	11	361	374	.51	864	98	.08	.05	.040	.090
24...	--	--	--	--	--	--	--	--	--	--	--
AUG											
06...	.4	7.9	357	346	.47	229	22	.02	.00	.000	.000
28...	--	--	--	--	--	--	--	--	--	--	--
SEP											
03...	.2	7.3	333	333	.45	171	51	.00	.01	.000	.010

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT											
17...	--	--	--	--	--	--	--	--	--	--	--
25...	.10	.04	.60	.62	.68	.03	.65	.90	.79	4.0	.050
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
29...	.21	.43	.61	.38	.78	.07	.71	1.1	.97	4.8	.050
DEC											
19...	.13	.12	.99	.90	1.1	.11	.99	1.3	1.2	5.6	.010
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
23...	.16	.09	.87	1.2	1.0	.00	1.3	1.5	1.9	6.8	.300
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	.61	.03	1.5	1.8	2.0	.20	1.8	3.5	2.5	16	.210
MAR											
19...	--	--	--	--	--	--	--	--	--	--	--
24...	.18	.10	.95	.52	1.1	.50	.60	1.2	.70	5.2	.200
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
24...	.28	.05	2.6	1.1	2.8	1.7	1.1	3.0	1.3	13	1.300
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
12...	.05	.01	.76	.69	.80	.10	.70	.85	.77	3.8	.160
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
11...	.05	.00	1.4	1.1	1.4	.30	1.1	1.5	2.0	6.5	.240
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	.05	.12	1.1	.36	1.1	.65	.45	1.2	.50	5.2	.010
24...	--	--	--	--	--	--	--	--	--	--	--
AUG											
06...	.00	.00	.43	.78	.43	.00	.78	.45	.81	2.0	.040
28...	--	--	--	--	--	--	--	--	--	--	--
SEP											
03...	.00	.01	.90	.85	.90	.04	.86	.90	.87	4.0	.010

DATE	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	BIOMASS CHLOROPHYLL RATIO PERIPHYTON (UNITS)	CHLOR-A PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)	CHLOR-B PERIPHYTON CHROMOGRAPHIC FLUOROM (MG/M2)
OCT											
17...	--	--	--	--	--	--	--	--	--	--	--
25...	.15	.010	--	8.3	.4	--	10.0	10.8	290	2.76	.250
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
29...	.15	.010	9.2	--	--	710	--	--	--	--	--
DEC											
19...	.03	.000	3.1	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
JAN											
23...	.92	.130	--	27	.9	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	.64	.040	19	--	--	--	--	--	--	--	--
MAR											
19...	--	--	--	--	--	--	--	--	--	--	--
24...	.61	.310	5.8	--	--	1200	--	--	--	--	--
APR											
18...	--	--	--	--	--	--	--	--	--	--	--
24...	4.0	.130	--	11	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
12...	.49	.040	22	--	--	910	--	--	--	--	--
JUN											
06...	--	--	--	--	--	--	--	--	--	--	--
11...	.74	.010	16	--	--	1000	1.89	2.21	86.0	3.72	.000
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
08...	.03	.030	--	--	--	670	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
AUG											
06...	.12	.060	--	6.6	--	2900	1.26	1.81	2290	.240	.000
28...	--	--	--	--	--	--	--	--	--	--	--
SEP											
03...	.03	.010	7.9	--	--	21000	9.13	10.0	2070	.420	.090

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
OCT 25...	0840	1	0	1	400	300	100	2	1	<1	4
NOV 29...	0815	--	--	--	--	--	--	--	--	--	--
JAN 23...	0900	4	0	4	200	100	100	1	0	2	0
FEB 28...	0900	--	--	--	--	--	--	--	--	--	--
APR 24...	1015	5	4	1	500	400	100	2	--	<1	20
MAY 12...	1200	--	--	--	--	--	--	--	--	--	--
JUL 08...	1130	--	--	--	--	--	--	--	--	--	--
AUG 06...	1130	2	0	2	100	0	100	0	--	<1	10

DATE	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
OCT 25...	4	0	0	0	<3	6	6	0	750	--	40
NOV 29...	--	--	--	--	--	--	--	--	--	--	--
JAN 23...	0	0	3	0	<3	12	11	1	1100	910	190
FEB 28...	--	--	--	--	--	--	--	--	--	--	--
APR 24...	20	0	6	--	<3	130	120	6	14000	13000	1400
MAY 12...	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	0	20	3	--	<3	24	20	4	560	540	20

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)
OCT 25...	5	5	0	70	60	10	.0	.0	.0	3	3
NOV 29...	--	--	--	--	--	--	--	--	--	--	--
JAN 23...	6	6	0	40	30	10	.0	.0	.0	2	0
FEB 28...	--	--	--	--	--	--	--	--	--	--	--
APR 24...	35	35	0	600	520	80	.2	.2	.0	20	20
MAY 12...	--	--	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--	--	--
AUG 06...	6	3	3	90	80	10	.5	.0	.6	3	3

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 25...	0	0	0	0	0	0	0	10	0	10
NOV 29...	--	--	--	--	1	--	--	--	--	--
JAN 23...	6	1	0	1	0	0	0	10	5	5
FEB 28...	--	--	--	--	0	--	--	--	--	--
APR 24...	0	1	0	1	1	1	0	250	240	10
MAY 12...	--	--	--	--	0	--	--	--	--	--
JUL 08...	--	--	--	--	0	--	--	--	--	--
AUG 06...	0	0	0	0	0	0	0	50	30	20

DATE	TIME	PCB TOTAL (UG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL (UG/L)
NOV 29...	0815	ND	--	--	--	ND	--	ND	--	ND
FEB 28...	0900	ND	--	--	--	ND	--	ND	--	ND
JUN 11...	1130	.00	0	.0	.0	.00	.0	.0	0	.00
SEP 03...	1310	.00	0	.0	.0	.00	.0	.0	0	.00

DATE	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDO-SULFAN, TOTAL (UG/L)	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
NOV 29...	--	ND	--	ND	--	ND	ND	--	--	--
FEB 28...	--	ND	--	ND	--	ND	ND	--	--	--
JUN 11...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.1
SEP 03...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.0

DATE	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)
NOV 29...	ND	--	ND	ND	--	ND	--	ND	--	ND
FEB 28...	ND	--	ND	ND	--	ND	--	ND	--	ND
JUN 11...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
SEP 03...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	METH-OXY-CHLOR, TOTAL (UG/L)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	PER-THANE IN BOTTOM MATERIL (UG/KG)	TOX-APHENE, TOTAL (UG/L)
NOV 29...	ND	--	ND	ND	--	--	ND	--	--	ND
FEB 28...	ND	--	ND	ND	--	--	ND	--	--	ND
JUN 11...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0
SEP 03...	.00	.0	.00	.00	.00	.0	.00	.00	.00	0

DATE	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2, 4-DP TOTAL (UG/L)	2,4-DP IN BOTTOM MATERIL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
NOV 29...	--	ND	ND	--	--	--	ND	--	ND	--
FEB 28...	--	ND	--	--	--	--	--	--	--	--
JUN 11...	0	.00	.03	0	.00	.0	.00	0	.00	.0
SEP 03...	0	.00	.00	0	.00	.0	.04	0	.00	.0

DATE	TOTAL DICAMBA (UG/L)	DICAMBA IN BOTTOM MA-TERIAL (UG/KG)	TOTAL PICLORAM (UG/L)	PICLORAM IN BOTTOM MA-TERIAL (UG/KG)
JUN 11...	--	.0	.00	.0
SEP 03...	.00	.0	.00	.0

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .062 MM	BED MAT. FALL DIAM. % FINER THAN .125 MM
OCT 25...	0840	5.0	172	62	29	99	--	--
NOV 29...	0815	.0	194	12	6.3	--	--	--
DEC 19...	0820	.5	130	48	17	--	--	--
JAN 23...	0900	.0	154	56	23	--	--	--
FEB 28...	0900	.0	283	40	31	--	--	--
MAR 24...	1430	2.5	319	106	91	--	--	--
APR 24...	1015	7.0	1960	1060	5610	95	--	--
MAY 12...	1200	8.0	2600	129	906	89	--	--
JUN 11...	1130	16.0	1600	162	700	84	--	--
JUL 08...	1130	17.5	856	127	294	94	--	--
AUG 06...	1130	18.0	245	72	48	--	--	--
SEP 03...	1310	16.0	190	52	27	97	12	22

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	BED MAT. FALL DIAM. % FINER THAN .250 MM	BED MAT. FALL DIAM. % FINER THAN .500 MM	BED MAT. FALL DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
OCT								
25...	--	--	--	--	--	--	--	--
NOV								
29...	--	--	--	--	--	--	--	--
DEC								
19...	--	--	--	--	--	--	--	--
JAN								
23...	--	--	--	--	--	--	--	--
FEB								
28...	--	--	--	--	--	--	--	--
MAR								
24...	--	--	--	--	--	--	--	--
APR								
24...	--	--	--	--	--	--	--	--
MAY								
12...	--	--	--	--	--	--	--	--
JUN								
11...	--	--	--	--	--	--	--	--
JUL								
08...	--	--	--	--	--	--	--	--
AUG								
06...	--	--	--	--	--	--	--	--
SEP								
03...	46	73	75	76	77	82	90	100

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	541	582	594	594	580	468	630	471	547	576	583	559
2	541	573	614	588	585	474	624	471	541	581	563	557
3	559	568	592	577	583	474	621	478	539	589	566	559
4	571	590	603	579	564	474	627	465	541	589	576	554
5	571	554	561	579	566	468	616	465	541	557	561	537
6	571	563	567	579	561	465	627	465	547	584	557	554
7	565	566	556	573	562	472	622	524	541	584	547	525
8	565	545	567	553	575	470	617	516	481	584	549	521
9	565	557	628	547	550	470	622	521	479	590	539	521
10	540	565	634	560	555	474	664	518	475	582	512	521
11	540	563	639	567	552	512	656	524	475	582	552	519
12	552	563	624	564	551	512	661	524	475	587	552	525
13	546	560	629	577	543	436	653	513	475	644	552	519
14	507	558	632	375	546	519	659	519	475	644	541	519
15	540	535	626	369	557	511	496	519	470	639	536	508
16	552	549	580	367	559	517	496	519	468	644	541	513
17	653	593	586	383	559	535	488	530	463	644	530	508
18	642	607	580	375	546	539	513	530	468	649	530	508
19	631	529	582	378	326	539	481	530	468	639	530	525
20	643	568	582	375	326	670	481	533	466	649	477	508
21	643	584	585	380	325	664	481	530	466	633	542	508
22	637	584	571	377	319	662	485	528	466	628	542	513
23	631	615	578	379	468	667	479	534	476	639	548	508
24	589	617	559	578	400	667	475	526	557	623	548	508
25	589	600	581	574	326	664	471	524	557	599	548	524
26	589	555	584	582	328	662	477	528	562	583	548	522
27	581	581	578	582	326	662	469	528	555	604	548	520
28	576	628	590	582	323	667	477	534	557	597	529	518
29	590	659	---	582	472	670	467	528	589	604	557	518
30	585	608	591	582	---	667	475	539	587	604	537	571
31	579	---	600	580	---	670	---	545	---	604	559	---
MEAN	580	577	593	511	484	559	554	515	510	608	545	526

WTR YR 1980 MEAN 547 MAX 670 MIN 319

10039500 BEAR RIVER AT BORDER, WY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	5.0	.5	.5	1.0	.5	4.5	12.5	12.0	17.0	20.5	15.5
2	12.5	4.5	.5	.5	1.0	.5	4.0	12.5	12.0	17.5	21.0	15.5
3	12.5	4.5	.5	.5	1.0	.5	4.0	13.0	12.0	17.0	19.5	15.0
4	12.5	4.0	.5	.5	1.0	.5	4.5	13.0	12.0	18.0	16.0	15.5
5	12.5	4.0	.5	.5	1.0	.5	4.5	13.0	12.5	19.5	18.5	16.0
6	12.5	4.5	.5	.5	1.0	.5	4.5	13.0	12.5	21.0	21.5	16.0
7	12.0	4.5	.5	.5	1.0	.5	5.0	12.5	13.0	19.0	20.5	14.0
8	12.0	4.5	.5	.5	1.0	.5	5.5	12.5	13.5	19.5	21.0	14.0
9	12.0	4.0	.5	.5	.5	.5	5.5	12.0	14.0	20.0	21.5	14.0
10	12.5	4.0	.5	.5	.5	.5	7.0	12.0	14.0	20.5	20.0	14.0
11	12.5	3.5	.5	.5	.5	.5	9.0	12.0	14.0	20.5	19.5	13.5
12	11.5	4.0	.5	.5	.5	.5	9.0	11.5	14.5	20.5	20.5	13.0
13	9.0	2.0	.5	.5	.5	2.5	8.5	11.5	15.0	21.0	20.0	13.0
14	9.0	2.0	.5	.5	.5	3.0	9.0	11.5	15.0	21.0	23.5	13.0
15	9.0	1.5	.5	.5	.5	3.0	9.0	11.5	16.5	21.0	19.5	12.5
16	11.0	1.5	.5	.5	.5	3.0	9.0	10.5	17.5	20.5	19.0	11.5
17	9.0	1.0	.5	.5	.5	3.0	9.0	10.5	18.0	19.0	19.0	11.5
18	9.0	1.0	.5	.5	.5	3.0	9.0	10.5	18.0	19.0	19.0	11.5
19	7.5	1.0	.5	.5	.5	3.0	9.5	10.5	18.0	18.0	17.5	11.0
20	7.5	1.0	.5	.5	.5	2.5	10.0	10.5	18.0	19.0	14.0	11.0
21	7.0	.0	.5	.5	.5	2.5	10.0	9.5	18.0	18.0	19.5	11.0
22	7.0	.0	.5	.5	.5	2.5	10.0	9.5	18.5	20.0	15.5	11.0
23	7.0	.0	.5	.5	.5	2.5	9.5	9.5	18.0	20.0	19.5	11.0
24	6.5	.0	.5	.5	.5	2.5	10.0	9.5	18.5	19.5	15.5	12.0
25	5.0	.0	.5	.5	.5	2.5	10.5	9.5	18.0	20.0	15.5	12.5
26	5.0	.5	.5	.5	.5	2.5	11.0	9.5	17.5	20.0	14.5	12.5
27	5.0	.5	.5	.5	.5	3.0	11.5	10.0	17.5	19.5	15.0	12.5
28	5.0	.5	.5	.5	.5	3.0	12.0	10.0	17.5	21.0	15.5	12.0
29	5.0	.5	.5	.5	.5	3.0	12.0	11.0	17.0	19.0	14.5	12.5
30	5.0	.5	.5	.5	---	3.5	12.5	11.5	16.5	21.0	13.0	12.0
31	5.0	---	.5	1.0	---	3.5	---	12.0	---	21.0	16.0	---
MEAN	9.0	2.0	.5	.5	.5	2.0	8.5	11.0	15.5	19.5	18.0	13.0

WTR YR 1980 MEAN 8.5 MAX 23.5 MIN .0

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES

DATE	NOV 29,79		MAR 24,80		MAY 12,80		JUN 12,80	
TIME	0815		1430		1200		1130	
TOTAL CELLS/ML	710		1200		910		1000	
DIVERSITY: DIVISION	1.3		1.1		1.3		1.1	
.CLASS	1.3		1.1		1.3		1.1	
..ORDER	1.3		1.4		2.1		1.8	
...FAMILY	2.2		2.8		2.8		2.3	
....GENUS	2.4		2.8		2.8		2.5	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	13	1	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	20	3	55	5	--	-	26	3
....CHLORELLA	--	-	--	-	13	1	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	100	10
....OOCYSTIS	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	20	3	--	-	52	6	100	10
....TETRASTRUM	--	-	--	-	--	-	52	5
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	250#	21	78	9	--	-
...VOLVOCACEAE								
....GONIUM	--	-	--	-	210#	23	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	5	1	37	3	140#	16	--	-
....MELOSIRA	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	350#	35
..PENNALES								
...CYMBELLACEAE								
....CYMBELLA	10	1	9	1	--	-	--	-
...DIATOMACEAE								
....DIATOMA	55	8	18	2	39	4	--	-
....OPEPHORA	66	9	--	-	--	-	--	-
...EUNOTIACEAE								
....EUNOTIA	--	-	18	2	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	--	-	--	-
....SYNEDRA	66	9	55	5	13	1	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	74	6	--	-	--	-
...NAVICULACEAE								
....NAVICULA	15	2	64	5	--	-	26	3
...NITZSCHIACEAE								
....NITZSCHIA	81	11	130	11	290#	31	300#	29
...SURIRELLACEAE								
....SURIRELLA	--	-	450#	37	13	1	13	1
...TABELLARIACEAE								
....TABELLARIA	5	1	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	13	1
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	26	3	13	1
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....SCHIZOTHRIX	360#	51	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	26	3	--	-
....TRACHELOMONAS	--	-	9	1	--	-	13	1
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..GYMNODINIALES								
...GYMNODINIACEAE								
....GYMNODINIUM	--	-	37	3	--	-	--	-

NOTE: # - DOMINANT ORGANISM; EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

BEAR RIVER BASIN

10039500 BEAR RIVER AT BORDER, WY--Continued

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PHYTOPLANKTON ANALYSES

DATE	JUL 8,80		AUG 6,80		SEP 3,80	
TIME	1130		1130		1310	
TOTAL CELLS/ML	670		2900		21000	
DIVERSITY: DIVISION	1.0		1.7		0.9	
.CLASS	1.0		1.7		0.9	
..ORDER	1.9		2.1		1.1	
...FAMILY	2.8		2.4		1.3	
....GENUS	3.0		2.5		1.3	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	13	2	--	-	--	-
...MICRACTINIACEAE						
....GOLENKINIA	--	-	20	1	--	-
....MICRACTINIUM	--	-	--	-	550	3
...OOCYSTACEAE						
....ANKISTRODESMUS	13	2	180	6	550	3
....CHLORELLA	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-
....OOCYSTIS	--	-	80	3	--	-
...SCENEDESMACEAE						
....SCENEDESMUS	100#	15	360	13	1900	9
....TETRASTRUM	--	-	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	39	6	160	6	140	1
...VOLVOCACEAE						
....GONIUM	--	-	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	150#	23	1100#	38	16000#	79
....MELOSIRA	39	6	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-
..PENNALES						
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
....OPEPHORA	--	-	--	-	--	-
...EUNOTIACEAE						
....EUNOTIA	--	-	--	-	--	-
...FRAGILARIACEAE						
....FRAGILARIA	140#	21	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	26	4	20	1	140	1
...NITZSCHIACEAE						
....NITZSCHIA	100#	15	100	3	140	1
...SURIRELLACEAE						
....SURIRELLA	13	2	--	-	--	-
...TABELLARIACEAE						
....TABELLARIA	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	140	1
...CRYPTOMONADACEAE						
....CRYPTOMONAS	26	4	80	3	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	--	-	800#	28	690	3
..HORMOGONALES						
...OSCILLATORIACEAE						
....SCHIZOTHRIX	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	140	1
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..GYMNODINIALES						
...GYMNODINIACEAE						
....GYMNODINIUM	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM, EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE¼NW¼ sec.19, T.28 N., R.119 W., Lincoln County, WY, Hydrologic Unit 16010102, on right bank 1.3 mi (2.1 km) upstream from State line, 1.5 mi (2.4 km) downstream from Giraffe Creek, and 3.5 mi (5.6 km) northeast of Geneva, ID.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft (1,914 m), from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--31 years, 55.1 ft³/s (1.56 m³/s), 39,920 acre-ft/yr (49.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft³/s (29.5 m³/s) May 14, 1971, gage height, 3.84 ft (1.170 m); minimum, 2.6 ft³/s (0.074 m³/s) Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 30	0300	*748	21.2	3.37	1.027	June 3	2100	607	17.2	3.09	0.942
May 24	0200	334	9.46	2.41	.735						

Minimum discharge, 6.6 ft³/s (0.187 m³/s) Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	14	13	13	14	13	12	530	226	113	45	31
2	13	14	13	13	14	13	12	490	252	104	43	30
3	13	15	13	13	14	13	12	455	342	105	43	29
4	13	15	13	13	14	13	13	477	326	98	42	28
5	13	15	13	13	14	12	14	497	329	92	41	28
6	13	14	14	13	14	12	16	461	324	88	40	27
7	13	14	14	13	14	12	14	469	307	87	39	29
8	13	14	14	13	13	12	14	438	291	87	38	29
9	13	15	13	13	12	11	14	446	278	82	37	29
10	13	13	14	13	12	11	14	426	265	79	36	28
11	13	14	13	13	12	10	14	391	248	76	36	38
12	13	14	13	15	12	9.9	15	394	233	74	35	38
13	13	14	13	19	12	10	16	362	220	72	35	33
14	13	14	13	19	12	9.9	19	343	209	70	35	30
15	14	14	13	16	13	10	26	334	200	68	44	27
16	15	14	13	15	13	10	32	343	190	66	51	27
17	14	14	13	15	13	10	38	326	179	65	41	26
18	15	15	13	15	14	10	53	304	169	63	36	25
19	42	13	13	14	15	12	71	293	162	64	36	26
20	30	13	13	14	14	12	97	284	155	60	37	26
21	19	13	13	14	13	12	124	277	147	58	35	27
22	17	13	13	14	13	12	168	268	140	56	34	26
23	16	13	13	14	13	13	237	306	133	54	33	25
24	16	13	13	14	13	13	275	299	128	53	32	25
25	15	13	13	14	13	13	237	276	122	52	34	25
26	15	14	13	14	13	12	297	265	117	49	45	25
27	14	13	13	14	13	13	307	250	112	48	34	24
28	14	13	13	14	13	13	331	237	110	47	33	24
29	14	13	13	14	13	14	373	252	107	46	31	24
30	13	13	13	14	---	13	605	237	107	46	31	24
31	14	---	13	14	---	13	---	233	---	45	32	---
TOTAL	479	413	407	439	382	366.8	3470	10963	6128	2167	1164	833
MEAN	15.5	13.8	13.1	14.2	13.2	11.8	116	354	204	69.9	37.5	27.8
MAX	42	15	14	19	15	14	605	530	342	113	51	38
MIN	13	13	13	13	12	9.9	12	233	107	45	31	24
AC-FT	950	819	807	871	758	728	6880	21750	12150	4300	2310	1650

CAL YR 1979 TOTAL 14714.0 MEAN 40.3 MAX 284 MIN 13 AC-FT 29190
WTR YR 1980 TOTAL 27211.8 MEAN 74.3 MAX 605 MIN 9.9 AC-FT 53970

SNAKE RIVER MAIN STEM

13011000 SNAKE RIVER NEAR MORAN, WY

LOCATION.--Lat 43°51'31", long 110°35'09", in SW¼SE¼ sec.18, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on left bank 1,000 ft (305 m) downstream from Jackson Lake Dam, 4.1 mi (6.6 km) west of Moran, and at mile 988.7 (1,590.8 km).

DRAINAGE AREA.--807 mi^2 (2,090 km^2). Mean altitude, 8,040 ft (2,450 m).

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "South Fork Snake River at Moran" prior to October 1910 and as "Snake River at Moran" October 1910 to September 1968.

REVISED RECORDS.--WSP 1217: 1944(m). WSP 1347: 1906-10. WRD ID 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,727.84 ft (2,050.646 m), National Geodetic Vertical Datum of 1929 (levels by WPRS). Prior to June 13, 1917, nonrecording gage, and June 14, 1917, to May 20, 1940, water-stage recorder, at site 1.5 mi (2.4 km) downstream at different datums.

REMARKS.--Records good. Flow regulated by Jackson Lake (see sta 13010500).

COOPERATION.--Once-daily gage readings for current reporting purposes furnished by Water and Power Resources Service.

AVERAGE DISCHARGE.--77 years, 1,437 ft^3/s (40.70 m^3/s), 1,041,000 acre-ft/yr (1,280 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft^3/s (428 m^3/s) June 12, 1918, gage height, 10.41 ft (3.173 m), site and datum then in use; minimum, 0.30 ft^3/s (0.01 m^3/s) Oct. 26, 27, 28, 1969, gage height, 0.89 ft (0.271 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood during early June 1894 was considererably higher than that of June 12, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,980 ft^3/s (169 m^3/s) June 25, gage height, 7.82 ft (2.384 m); minimum daily, 198 ft^3/s (5.61 m^3/s) Sept. 18-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	218	218	217	241	266	456	2560	2530	4120	2190	1450
2	227	218	218	217	237	267	454	2550	2690	3830	2180	1450
3	227	217	220	218	237	271	455	2550	3310	3830	2180	1440
4	227	217	219	221	234	271	462	2540	3660	3540	2190	1440
5	227	217	218	220	234	271	457	2550	3660	3350	2180	1440
6	227	217	220	221	234	273	457	2550	3670	3190	2170	1960
7	227	217	221	221	234	274	452	2560	3660	2770	2170	2570
8	227	216	221	221	234	273	452	2570	3660	2560	2170	2550
9	227	216	221	221	237	273	452	2890	3660	2560	2160	2540
10	228	216	220	221	237	272	448	3100	3660	2540	2160	2530
11	228	215	221	221	241	273	448	3100	4180	2540	2160	1040
12	227	216	221	223	241	271	443	3250	4620	2540	2150	545
13	227	216	221	224	241	270	443	3330	4630	2540	1920	305
14	227	216	221	224	241	303	443	3330	4640	2340	1780	208
15	228	216	221	224	237	383	443	3330	4660	1910	1620	208
16	230	217	221	224	241	377	443	3340	4660	1640	1500	201
17	230	217	221	224	241	376	443	3340	4660	1460	1490	201
18	229	214	221	224	244	408	463	3340	4660	1550	1490	198
19	232	215	221	224	248	482	465	3350	4970	1610	1490	198
20	230	216	221	224	254	477	470	3350	5170	1600	1490	198
21	230	217	221	224	252	474	659	3370	5170	1590	1490	198
22	229	217	217	227	253	471	1210	3800	5170	1690	1490	198
23	227	217	217	224	256	471	1470	4230	5170	1730	1490	198
24	227	217	217	224	258	468	1460	4580	5170	1860	1480	198
25	224	217	217	241	259	467	1520	4590	5510	1970	1480	198
26	221	217	217	237	260	466	2030	4910	5190	1990	1480	198
27	218	217	217	237	262	463	2460	5090	4620	1990	1480	198
28	218	217	217	237	263	462	2510	4190	4530	1980	1470	198
29	218	217	217	237	264	458	2560	3530	4530	1980	1470	198
30	217	218	217	237	---	457	2560	3390	4520	1980	1460	198
31	219	---	217	237	---	457	---	3040	---	2110	1460	---
TOTAL	7007	6498	6797	6996	7115	11445	27488	104200	130590	72890	55090	24652
MEAN	226	217	219	226	245	369	916	3361	4353	2351	1777	822
MAX	232	218	221	241	264	482	2560	5090	5510	4120	2190	2570
MIN	217	214	217	217	234	266	443	2540	2530	1460	1460	198
AC-FT	13900	12890	13480	13880	14110	22700	54520	206700	259000	144600	109300	48900

CAL YR 1979 TOTAL 480135 MEAN 1315 MAX 4910 MIN 214 AC-FT 952300
WTR YR 1980 TOTAL 460768 MEAN 1259 MAX 5510 MIN 198 AC-FT 913900

PACIFIC CREEK BASIN

13011500 PACIFIC CREEK AT MORAN, WY

LOCATION.-- Lat 43°51'04", long 110°30'59", in SW¼NW¼ sec. 23, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on left bank 40 ft (12 m) upstream from bridge on U.S. Highway 287, at Moran, and at mile 0.5 (0.8 km).

DRAINAGE AREA.-- 169 mi² (502 km²). Mean altitude, 8,160 ft (2,490 m).

PERIOD OF RECORD.--July to November 1906 (gage heights only), July 1917 to September 1918 (no winter records), September 1944 to September 1975, July 1978 to current year. Published as "near Moran" prior to October 1968.

GAGE.--Water-stage recorder. Altitude of gage is 6,720 ft (2,050 m) from topographic map. July 31 to Nov. 11, 1906, nonrecording gage at site 0.4 mi (0.6 km) downstream at different datum. July 20, 1917, to Sept. 30, 1918, nonrecording gage at site 0.1 mi (0.2 km) downstream at different datum. Sept. 23, 1944, to Nov. 13, 1959, at site 100 ft (30 m) upstream at same datum. Nov. 14, 1959, to Sept. 24, 1975, at site 35 ft (11 m) downstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. No diversion or regulation.

AVERAGE DISCHARGE.--33 years (water years 1944-75, 1979-80), 266 ft³/s (7.533 m³/s), 22.58 in/yr (574 mm/yr), 192,700 acre-ft/yr (238 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,790 ft³/s (107 m³/s) June 15, 1974, maximum gage height, 6.35 ft (1.935 m) June 23, 1971; minimum daily discharge, 19 ft³/s (0.54 m³/s) Dec. 31, 1979.

EXTREMES FOR CURRENT YEAR.-- Peak discharges above base of 1,300 ft³/s (36.8 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 23,24		*2,270	64.3	5.70	1.737
June 12	0045	1,570	44.5	5.27	1.606

Minimum daily discharge, 29 ft³/s (0.82) Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	42	44	36	34	55	50	659	811	486	101	84
2	47	42	46	36	37	56	50	693	850	493	98	77
3	47	42	47	35	36	54	50	659	900	560	95	73
4	47	42	46	36	35	53	48	772	821	466	98	73
5	47	43	45	35	36	52	48	860	840	406	92	69
6	47	43	46	33	37	51	48	920	860	368	84	66
7	47	43	46	33	37	50	48	994	772	329	80	54
8	47	45	45	33	37	51	48	1110	801	329	77	62
9	45	43	45	33	36	50	47	1160	950	329	80	60
10	45	43	44	33	37	52	47	1050	1130	303	80	60
11	45	43	43	34	38	52	48	840	1260	267	75	75
12	45	42	40	35	39	52	47	693	1350	247	75	95
13	45	41	40	37	37	52	47	600	1260	228	73	95
14	45	40	42	40	39	48	47	560	1150	218	71	115
15	45	41	42	39	43	48	48	591	1090	218	87	101
16	45	43	42	38	46	46	50	693	870	206	112	90
17	45	43	41	37	49	45	53	710	811	182	101	87
18	45	43	41	37	54	46	60	910	880	171	90	82
19	50	42	40	36	60	47	75	1000	900	164	87	90
20	55	44	41	35	57	47	106	1190	.930	160	98	92
21	55	45	41	35	55	48	146	1510	950	149	92	101
22	55	46	42	34	52	52	202	1760	870	139	84	106
23	55	45	41	35	50	50	242	2100	870	127	80	95
24	53	46	41	36	50	50	282	1970	792	118	77	94
25	53	46	41	37	48	48	308	1540	728	118	73	86
26	53	46	41	36	50	45	387	1130	702	118	75	82
27	53	45	39	33	53	48	412	940	660	112	77	77
28	53	43	36	29	56	48	419	840	560	106	77	73
29	53	41	35	30	56	47	493	831	515	104	75	71
30	50	42	36	30	---	47	560	801	500	106	69	69
31	45	---	36	31	---	50	---	753	---	106	82	---
TOTAL	1512	1295	1295	1077	1294	1540	4516	30839	26383	7433	2615	2464
MEAN	48.8	43.2	41.8	34.7	44.6	49.7	151	995	879	240	84.4	82.1
MAX	55	46	47	40	60	56	560	2100	1350	560	112	115
MIN	45	40	35	29	34	45	47	560	500	104	69	60
AC-FT	3000	2570	2570	2140	2570	3050	8960	61170	52330	14740	5190	4890

CAL YR 1979 TOTAL 76972 MEAN 211 MAX 1810 MIN 20 AC-FT 152700
WTR YR 1980 TOTAL 82263 MEAN 225 MAX 2100 MIN 29 AC-FT 163200

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY

LOCATION.--Lat 43°50'14", long 110°26'21", in SE¼NE¼ sec.29, T.45 N., R.113 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on right bank underneath bridge on U.S. Highway 26, 287, about 2 mi (3 km) upstream from Lava Creek, 3.5 mi (5.6 km) east of Moran, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--323 mi^2 (837 km^2).

PERIOD OF RECORD.--September 1965 to current year. July to November 1906, July 1917 to September 1918, and September 1944 to September 1960 at sites about 4 mi (6 km) downstream.

REVISED RECORDS.--WRD ID 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,772.78 ft (2,064.343 m), National Geodetic Vertical Datum of 1929 (U.S. Bureau of Public Roads bench mark).

REMARKS.--Records good except those for winter period, which are fair. No regulation or significant diversions above station.

AVERAGE DISCHARGE.--15 years (water years 1966-80), 563 ft^3/s (15.94 m^3/s), 407,900 acre-ft/yr (503 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,020 ft^3/s (170 m^3/s) June 19, 1974, gage height, 7.91 ft (2.411 m); minimum daily, 82 ft^3/s (2.32 m^3/s) Jan. 28-31, 1969, Jan. 28, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3,100 ft^3/s (87.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 21	0530	*3,280	92.9	5.79	1.765

Minimum daily discharge, 82 ft^3/s (2.32 m^3/s) Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	133	105	96	88	101	112	707	906	2250	417	289
2	172	167	105	92	96	100	115	740	922	2010	407	267
3	170	157	110	90	96	96	115	721	932	2090	387	255
4	167	159	110	92	94	98	119	824	901	1980	379	249
5	167	157	108	94	89	97	114	975	1030	1720	357	239
6	165	147	104	92	94	100	112	1050	1040	1660	344	232
7	162	134	106	88	99	95	108	1120	943	1490	338	228
8	161	136	108	93	96	98	103	1310	914	1330	333	228
9	160	130	108	95	88	100	114	1250	1120	1630	339	242
10	159	125	103	94	88	118	112	1070	1420	1520	325	235
11	159	120	97	94	88	111	105	859	1770	1370	316	276
12	157	110	92	100	86	104	110	721	2040	1190	307	307
13	156	106	95	105	86	96	107	626	2190	1120	297	338
14	155	106	99	108	84	103	116	582	2160	1030	292	324
15	157	110	100	105	88	99	131	564	2020	991	310	280
16	165	115	100	100	93	96	141	626	1610	927	322	273
17	161	120	100	100	96	98	147	653	1660	890	314	267
18	161	122	100	97	104	105	167	735	2120	824	292	249
19	172	120	94	95	116	110	206	829	2280	764	291	321
20	178	116	98	90	112	115	268	980	2680	717	321	295
21	170	104	100	88	105	119	333	1550	2890	671	296	292
22	170	108	100	88	98	120	352	2050	2710	635	275	286
23	160	112	100	90	94	115	355	2300	2740	601	269	268
24	169	112	100	90	94	110	434	2140	2510	584	263	268
25	170	112	98	94	94	100	476	1670	2370	572	255	257
26	173	112	97	92	98	105	487	1300	2560	533	285	249
27	165	110	96	89	108	110	487	1120	2530	497	276	240
28	155	104	90	82	106	112	499	1010	1890	467	280	236
29	160	95	85	83	103	110	547	953	1810	454	258	231
30	137	100	86	86	---	110	599	916	1920	473	244	225
31	117	---	90	84	---	110	---	870	---	444	263	---
TOTAL	5024	3659	3084	2886	2781	3261	7191	32821	54588	33434	9652	7946
MEAN	162	122	99.5	93.1	95.9	105	240	1059	1820	1079	311	265
MAX	178	167	110	108	116	120	599	2300	2890	2250	417	338
MIN	117	95	85	82	84	95	103	564	901	444	244	225
AC-FT	9970	7260	6120	5720	5520	6470	14260	65100	108300	66320	19140	15760

CAL YR 1979 TOTAL 166946 MEAN 457 MAX 3600 MIN 85 AC-FT 331100
WTR YR 1980 TOTAL 166327 MEAN 454 MAX 2890 MIN 82 AC-FT 329900

13018300 CACHE CREEK NEAR JACKSON, WY
(Hydrologic bench-mark station)

LOCATION.--Lat 43°27'08", long 110°42'12", in SW¼SW¼SE¼ sec.1, T.40 N., R.116 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, on right bank 0.7 mi (1.1 km) upstream from Salt Lick Draw, 2.4 mi (3.9 km) southeast of Jackson, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--10.6 mi^2 (27.4 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1962 to current year.

REVISED RECORDS.--WDR WY-76-2: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,750 ft (2,057 m), from topographic map.

REMARKS.--Records good except those for winter months, which are fair. No diversion above station.

AVERAGE DISCHARGE.--18 years, 13.6 ft^3/s (0.385 m^3/s), 9,850 acre-ft/yr (12.1 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft^3/s (6.37 m^3/s) June 24, 1971, gage height, 3.90 ft (1.189 m); maximum gage height, 3.97 ft (1.210 m) June 7, 1972; minimum daily discharge, 2.1 ft^3/s (0.059 m^3/s) Jan. 1, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 52 ft^3/s (1.47 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 23	2130	*68	1.93	2.96	0.902
June 11	2215	53	1.50	2.79	.850

Minimum daily discharge, 2.8 ft^3/s (0.079 m^3/s) Mar. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	4.9	5.6	4.6	4.0	3.2	3.4	16	34	31	14	10
2	6.0	5.0	5.6	4.7	4.2	3.2	3.3	16	35	30	14	9.9
3	6.0	5.0	5.6	4.7	4.3	3.1	3.3	17	38	31	14	9.7
4	6.0	5.2	5.5	4.7	3.9	3.1	3.4	17	37	29	14	9.7
5	6.0	5.2	5.4	4.7	3.8	3.1	3.4	19	38	27	13	9.4
6	5.8	5.4	5.2	4.3	3.8	3.1	3.6	21	42	26	13	9.4
7	5.8	5.4	5.4	4.6	3.8	3.0	3.6	23	40	26	13	9.4
8	5.8	5.2	5.4	4.6	3.6	3.1	3.5	26	39	25	13	9.7
9	5.8	5.4	5.4	4.6	3.6	3.1	3.6	27	41	24	13	9.4
10	5.7	5.2	5.4	4.3	3.5	3.1	3.6	26	44	23	13	9.7
11	5.7	5.3	5.5	4.6	3.5	3.1	3.6	23	41	22	12	9.9
12	5.5	5.2	5.3	4.9	3.5	3.1	3.7	21	51	22	12	9.7
13	5.5	5.1	5.2	4.7	3.5	3.0	3.7	20	49	21	12	9.9
14	5.5	5.1	5.2	4.6	3.4	2.9	3.9	20	48	21	12	9.4
15	5.7	5.2	5.4	4.4	3.4	2.9	4.2	19	44	21	12	9.2
16	5.8	5.3	5.4	4.4	3.4	2.8	4.3	20	40	20	12	8.7
17	5.7	5.5	5.4	4.3	3.3	2.8	4.6	21	39	20	12	8.5
18	5.7	5.7	5.2	4.3	3.3	3.0	5.2	22	40	19	12	8.5
19	6.8	5.5	5.2	4.2	3.3	3.1	5.7	22	40	19	12	8.5
20	6.0	5.5	5.2	4.0	3.3	3.2	7.0	28	40	18	12	8.2
21	5.7	5.4	5.4	4.1	3.2	3.2	7.8	34	40	18	11	8.7
22	5.7	5.3	5.2	4.3	3.2	3.2	9.4	41	39	18	11	8.0
23	5.5	5.3	5.2	4.4	3.2	3.2	9.9	59	39	18	11	7.8
24	5.5	5.4	5.2	4.4	3.2	3.3	10	61	37	17	11	8.0
25	5.5	5.8	5.0	4.2	3.1	3.3	10	49	35	16	11	7.8
26	5.7	5.8	4.9	4.2	3.2	3.2	12	41	34	16	12	7.8
27	5.5	5.8	4.7	4.2	3.2	3.3	12	38	34	16	11	7.6
28	5.5	5.8	4.7	4.0	3.2	3.2	13	35	32	15	11	7.4
29	5.4	5.7	4.6	3.9	3.2	3.3	13	34	31	15	10	7.2
30	5.4	5.6	4.5	3.8	---	3.3	14	34	31	15	10	7.0
31	5.0	---	4.5	3.7	---	3.4	---	34	---	15	10	---
TOTAL	177.2	161.2	161.4	135.4	101.1	96.9	191.7	884	1172	654	373	264.1
MEAN	5.72	5.37	5.21	4.37	3.49	3.13	6.39	28.5	39.1	21.1	12.0	8.80
MAX	6.8	5.8	5.6	4.9	4.3	3.4	14	61	51	31	14	10
MIN	5.0	4.9	4.5	3.7	3.1	2.8	3.3	16	31	15	10	7.0
AC-FT	351	320	320	269	201	192	380	1750	2320	1300	740	524

CAL YR 1979 TOTAL 4110.1 MEAN 11.3 MAX 66 MIN 3.0 AC-FT 8150
WTR YR 1980 TOTAL 4372.0 MEAN 11.9 MAX 61 MIN 2.8 AC-FT 8670

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

(Hydrologic bench-mark station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)
OCT 01...	1230	6.2	360	8.5	5.0	--	9.8	--	K16	K2	25	130
NOV 06...	1145	5.7	250	8.7	.5	--	15.1	--	K2	K1	K9	170
DEC 06...	0830	4.2	325	8.7	1.0	--	10.2	--	7	3	8	160
JAN 02...	1700	4.7	325	8.4	.0	2	11.0	--	15	2	7	170
FEB 05...	1545	3.8	330	8.7	.5	4	10.8	--	8	2	4	180
MAR 18...	1715	4.0	380	8.5	.0	--	13.6	--	K1	0	K1	170
APR 16...	1721	4.3	251	8.3	3.0	--	12.3	92	77	53	170	170
MAY 20...	1010	26	285	8.6	3.5	--	12.0	115	K20	K1	110	160
JUN 17...	1726	39	288	8.2	9.0	--	9.3	103	120	K4	13	160
JUL 15...	0936	21	304	8.6	3.0	--	10.8	102	50	K19	43	150
AUG 14...	1716	12	274	8.6	9.0	--	9.3	103	39	K8	110	160
SEP 16...	1105	9.0	277	8.8	5.0	--	10.1	101	K5	K3	240	160
23...	1030	10	277	8.3	4.0	--	10.3	--	K5	>1	K20	170
30...	1720	7.0	305	--	6.0	--	--	--	--	--	--	--

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM AD-SORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT 01...	0	35	11	1.8	.1	.9	170	10	.6	.2	3.8
NOV 06...	5	43	14	2.1	.1	.6	160	15	.7	.1	5.2
DEC 06...	0	41	13	2.1	.1	.5	160	3.1	.4	.1	4.5
JAN 02...	0	43	15	2.8	.1	.7	170	8.7	1.1	.1	5.0
FEB 05...	12	48	15	2.4	.1	.7	170	8.1	1.0	.1	5.0
MAR 18...	14	45	15	2.3	.1	.5	160	9.1	1.5	.1	4.9
APR 16...	8	44	14	2.7	.1	.6	160	5.8	.5	.2	4.9
MAY 20...	2	45	12	2.9	.1	.9	160	3.5	2.2	.1	4.7
JUN 17...	130	45	11	2.6	.1	.6	30	1.5	.6	.1	4.4
JUL 15...	14	42	12	1.7	.1	.5	140	3.5	1.1	.2	2.8
AUG 14...	3	42	14	1.8	.1	.5	160	2.9	.8	.1	4.4
SEP 16...	3	42	14	2.0	.1	1.0	160	2.6	.8	.1	4.6
23...	8	44	14	2.2	.1	.8	160	3.9	.9	.1	4.6
30...	--	--	--	--	--	--	--	--	--	--	--

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)	CYANIDE TOTAL (MG/L AS CN)
OCT											
01...	--	166	.23	2.78	.06	.01	.010	.03	.010	.03	--
NOV											
06...	166	180	.24	2.77	.08	.61	.020	.06	.010	.03	--
DEC											
06...	186	162	.22	1.84	.10	.14	.020	.06	.010	.03	--
JAN											
02...	171	179	.24	2.27	.13	.16	.020	.06	.080	.25	--
FEB											
05...	172	183	.25	1.89	.12	.15	.030	.09	.030	.09	--
MAR											
18...	185	175	.24	1.89	.04	.07	.050	.15	.030	.09	--
APR											
16...	186	169	.23	1.96	.03	.05	.020	.06	.010	.03	--
MAY											
20...	166	168	.23	11.9	.03	.05	.110	.34	.010	.03	--
JUN											
17...	172	85	.12	8.97	.08	.13	.060	.18	.070	.21	.00
JUL											
15...	172	149	.20	8.45	.12	.24	.010	.03	.010	.03	--
AUG											
14...	169	163	.22	5.28	.00	.03	.020	.06	.000	.00	--
SEP											
16...	198	163	.22	3.96	.00	.00	.030	.09	.000	.00	--
23...	179	167	.23	4.51	.03	.01	.030	.09	.000	.00	.00
30...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM TOTAL (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)
MAR											
18...	1715	--	--	--	--	--	--	--	--	--	--
JUN											
17...	1726	1	0	1	0	0	50	<1	0	0	3
SEP											
23...	1030	2	2	0	0	0	30	<1	0	--	<1

DATE	CHRO-MIUM, TOTAL (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)
MAR											
18...	--	--	--	--	--	--	--	--	--	--	--
JUN											
17...	0	0	0	<3	5	<10	490	320	170	3	0
SEP											
23...	0	0	0	<3	3	<10	110	--	<10	2	--

DATE	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, TOTAL (UG/L AS SE)
MAR											
18...	--	--	--	--	--	.1	.1	.0	.01	--	--
JUN											
17...	41	5	20	10	10	.0	.0	.0	--	<10	0
SEP											
23...	<10	6	10	6	4	.0	.0	.0	--	<10	0

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
MAR 18...	--	--	--	--	--	--	--	--	--	--
JUN 17...	0	0	0	0	0	76	<6.0	20	0	30
SEP 23...	0	0	0	0	0	61	<6.0	20	7	13

DATE	TIME	PCB TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT 01...	1230	.00	0	.00	.0	.0	0	.00	.0	.00	.2

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDOSULFAN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)
OCT 01...	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00	.00

DATE	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)
OCT 01...	.0	.00	.0	.00	.0	.00	.00	.0	.00	.00	.00

DATE	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	PERTHANE IN BOTTOM MATERIL (UG/KG)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 01...	.0	.00	.00	.00	0	0	.00	.00	.00	.00	.00

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
01...	1230	5.0	6.2	5	.08	--
NOV						
06...	1145	.5	5.7	5	.08	--
DEC						
06...	0830	1.0	4.2	21	.24	--
JAN						
02...	1700	.0	4.7	8	.10	--
FEB						
05...	1545	.5	3.8	12	.12	--
MAR						
18...	1715	.0	4.0	55	.59	--
APR						
16...	1721	3.0	4.3	7	.08	--
MAY						
20...	1010	3.5	26	44	3.1	--
JUN						
17...	1726	9.0	39	61	6.4	--
JUL						
15...	0936	3.0	21	13	.74	--
SEP						
16...	1105	5.0	9.0	13	.32	--
23...	1030	4.0	10	34	.92	70

SNAKE RIVER MAIN STEM

13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY

LOCATION.--Lat 43°22'20", long 110°44'17", in NE¼SE¼ sec.3, T.39 N., R.116 W., Teton County, Hydrologic Unit 17040103, on left bank 20 ft (6.1 m) upstream from county road bridge, about 1 mi (1.6 km) downstream from Flat Creek, 4.8 mi (7.7 km) upstream from Hoback River, 7.0 mi (11.3 km) south of Jackson, and at mile 938.9 (1,510.7 km).

DRAINAGE AREA.--2,627 mi² (6,804 km²).

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft (1,814 m), from topographic map.

REMARKS.--Records good except those for winter periods, which are fair. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,000 ft³/s (538 m³/s) June 10, 1978, gage height, 8.64 ft (2.634 m); minimum daily, 780 ft³/s (22.1 m³/s) Dec. 31, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,500 ft³/s (439 m³/s) May 24, gage height, 7.75 ft (2.362 m); minimum daily, 960 ft³/s (27.2 m³/s) Jan. 10, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	1280	1060	1030	1040	1100	1270	5970	7190	10900	4270	2830
2	1290	1280	1100	1030	1080	1110	1270	6310	7280	10600	4240	2800
3	1290	1300	1190	1040	1100	1110	1260	6240	8240	10600	4160	2760
4	1290	1330	1170	1040	1120	1110	1260	6390	8900	10500	4080	2740
5	1280	1360	1170	1050	1100	1130	1290	7090	9050	9420	4010	2700
6	1290	1340	1180	1000	1100	1130	1340	7600	9430	8860	3940	2990
7	1310	1330	1180	980	1110	1090	1340	7910	9150	8250	3870	3680
8	1310	1300	1180	970	1090	1070	1320	8430	8690	7530	3830	3790
9	1290	1280	1180	970	1060	1070	1310	8750	8840	7530	3850	3760
10	1280	1280	1180	960	1050	1070	1310	8990	9530	7560	3810	3730
11	1290	1300	1160	960	1060	1080	1310	8400	10500	7160	3730	2900
12	1290	1270	1170	1000	1080	1080	1290	7470	12200	6790	3670	2370
13	1320	1250	1120	1160	1100	1080	1310	7140	12600	6520	3400	2110
14	1320	1230	1100	1200	1100	1080	1380	6800	12500	6370	3250	2030
15	1330	1210	1150	1180	1110	1100	1520	6650	12300	5680	3240	1890
16	1360	1200	1160	1140	1110	1160	1590	7010	11600	5310	3220	1780
17	1340	1220	1150	1130	1110	1150	1670	7410	10900	4910	3130	1740
18	1360	1250	1120	1120	1120	1130	1740	7830	11100	4650	3040	1690
19	1510	1220	1110	1100	1210	1150	1850	8230	11700	4560	2960	1690
20	1500	1200	1110	1110	1210	1250	2010	8460	12700	4470	2990	1730
21	1450	1180	1140	1120	1180	1250	2220	9650	13100	4310	2960	1750
22	1420	1160	1140	1130	1160	1250	2610	11200	13200	4180	2890	1750
23	1410	1170	1120	1130	1150	1250	3340	13400	13000	4180	2840	1740
24	1380	1160	1110	1130	1140	1250	3630	14900	12800	4130	2800	1720
25	1370	1170	1120	1110	1110	1280	3780	13600	12400	4270	2800	1690
26	1370	1180	1120	1100	1100	1280	4060	12300	12600	4290	2930	1640
27	1360	1160	1120	1060	1090	1260	4940	11400	11600	4230	2850	1600
28	1350	1160	1050	1040	1090	1260	5050	10700	11100	4150	2860	1570
29	1340	1100	1020	1020	1100	1260	5320	9070	10500	4070	2800	1560
30	1330	1070	1020	1020	---	1260	5580	8330	10500	4110	2740	1560
31	1290	---	1020	1030	---	1280	---	7830	---	4170	2740	---
TOTAL	41620	36940	34920	33060	32180	36130	69170	271460	325200	194260	103900	68290
MEAN	1343	1231	1126	1066	1110	1165	2306	8757	10840	6266	3352	2276
MAX	1510	1360	1190	1200	1210	1280	5580	14900	13200	10900	4270	3790
MIN	1280	1070	1020	960	1040	1070	1260	5970	7190	4070	2740	1560
AC-FT	82550	73270	69260	65570	63830	71660	137200	538400	645000	385300	206100	135500

CAL YR 1979 TOTAL 1233860 MEAN 3380 MAX 15000 MIN 880 AC-FT 2447000
WTR YR 1980 TOTAL 1247130 MEAN 3407 MAX 14900 MIN 960 AC-FT 2474000

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°11'47", long 110°53'18", Lincoln County, Hydrologic Unit 17040103, on right bank 0.3 mi (0.5 km) downstream from Wolf Creek, 6.4 mi (10.3 km) upstream from Greys River, 7.4 mi (11.9 km) east of Alpine, 16.1 mi (25.9 km) upstream from Palisades Dam, and at mile 917.5 (1,476.3 km).

DRAINAGE AREA.--3,465 mi^2 (8,974 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1937 to March 1939 (published as "above Greys River, near Alpine"), July 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,683.90 ft (1,732.453 m), National Geodetic Vertical Datum of 1929. Mar. 16, 1937, to Mar. 31, 1939, at site 6.0 mi (9.7 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station.

AVERAGE DISCHARGE.--28 years (water years 1938, 1954-80), 4,567 ft^3/s (129 m^3/s), 3,309,000 acre-ft/yr (4.08 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,600 ft^3/s (810 m^3/s) June 19, 1974, gage height, 11.96 ft (3.645 m); minimum, 740 ft^3/s (21.0 m^3/s) Nov. 16, 1955, gage height, 2.19 ft (0.668 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,500 ft^3/s (581 m^3/s) May 24, gage height, 9.69 ft (2.954 m); minimum daily discharge, 1,070 ft^3/s (30.3 m^3/s) Jan. 30 to Feb. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1650	1530	1290	1220	1070	1300	1550	9580	9660	12900	5210	3560
2	1630	1500	1290	1240	1100	1300	1510	9870	9660	12900	5170	3520
3	1630	1520	1290	1260	1280	1300	1510	9760	10700	12600	5070	3470
4	1630	1570	1300	1260	1300	1320	1520	10100	11200	12600	5000	3440
5	1630	1600	1340	1240	1260	1330	1600	10900	11600	11300	4900	3390
6	1640	1580	1340	1200	1250	1300	1660	11200	12100	10600	4810	3570
7	1670	1550	1350	1150	1240	1260	1630	11700	11900	9920	4720	4300
8	1660	1510	1360	1120	1200	1270	1570	12300	11200	9290	4680	4530
9	1640	1490	1350	1120	1200	1260	1580	12600	11200	9030	4710	4520
10	1630	1480	1350	1120	1180	1260	1630	12300	12300	9150	4620	4530
11	1610	1520	1300	1100	1170	1290	1580	11500	13600	8720	4550	3910
12	1600	1450	1240	1300	1170	1320	1590	10100	15400	8280	4500	3180
13	1640	1430	1240	1550	1200	1290	1630	9440	16100	7920	4220	2860
14	1640	1400	1220	1500	1230	1290	1720	8940	15800	7710	4040	2710
15	1640	1380	1300	1480	1240	1320	1850	8700	15200	7330	4050	2520
16	1680	1380	1300	1380	1250	1300	1980	9100	14200	6830	4050	2340
17	1660	1400	1310	1350	1250	1330	2070	9950	13200	6420	3910	2270
18	1680	1450	1280	1330	1290	1340	2210	10600	13400	6030	3810	2220
19	1890	1450	1310	1280	1390	1380	2440	11100	14400	5860	3720	2280
20	1900	1390	1320	1300	1390	1470	2830	11500	15500	5720	3780	2300
21	1810	1370	1290	1310	1340	1510	3310	13000	16100	5500	3700	2360
22	1750	1360	1300	1310	1330	1500	4000	14900	16100	5330	3610	2320
23	1730	1350	1290	1320	1300	1510	5210	18000	16000	5350	3570	2280
24	1720	1350	1260	1330	1270	1500	6070	20100	15700	5280	3520	2310
25	1680	1360	1290	1330	1220	1540	6160	17600	15000	5370	3510	2230
26	1680	1360	1270	1310	1230	1510	6720	15200	15200	5350	3710	2170
27	1670	1350	1250	1240	1260	1500	7690	14300	14200	5220	3630	2110
28	1660	1300	1200	1100	1270	1500	8120	13000	13300	5150	3650	2090
29	1650	1290	1180	1080	1300	1500	8490	11300	12300	5080	3550	2070
30	1600	1280	1180	1070	---	1540	9030	10700	12200	5120	3490	2080
31	1560	---	1180	1070	---	1550	---	10200	---	5180	3490	---
TOTAL	51860	42950	39770	38970	36180	42890	100460	369540	404420	239040	128950	87440
MEAN	1673	1432	1283	1257	1248	1384	3349	11920	13480	7711	4160	2915
MAX	1900	1600	1360	1550	1390	1550	9030	20100	16100	12900	5210	4530
MIN	1560	1280	1180	1070	1070	1260	1510	8700	9660	5080	3490	2070
AC-FT	102900	85190	78880	77300	71760	85070	199300	733000	802200	474100	255800	173400

CAL YR 1979 TOTAL 1450280 MEAN 3973 MAX 18800 MIN 960 AC-FT 2877000
WTR YR 1980 TOTAL 1582470 MEAN 4324 MAX 20100 MIN 1070 AC-FT 3139000

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected at bridge at Astoria Springs, 3.0 mi (4.8 km) downstream from Hoback River, 13 mi (21 km) upstream from discharge station, and 15 mi (24 km) northeast of Alpine.

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)
OCT									
09...	1140	1640	459	--	10.0	--	--	--	--
24...	1530	1650	365	8.5	9.0	2	11.4	K1	180
NOV									
19...	1315	1480	330	--	3.0	--	--	--	--
28...	1530	--	375	8.2	.5	2	11.8	21	190
DEC									
18...	1610	--	375	8.2	1.5	2	11.6	K8	170
JAN									
07...	1505	1090	177	--	.0	--	--	--	--
22...	1630	--	360	8.1	.5	2	12.0	K8	180
FEB									
19...	1418	1430	402	--	4.0	--	--	--	--
27...	1630	--	425	8.3	5.5	1	12.0	K2	170
MAR									
18...	1415	--	380	8.4	3.0	1	12.8	K1	170
APR									
16...	1027	1980	177	8.5	7.0	2	10.4	130	170
MAY									
19...	1547	10200	128	8.6	9.5	4	11.7	15	120
JUN									
19...	1458	14400	245	8.3	11.0	25	9.4	46	110
JUL									
14...	1350	7100	287	8.4	7.5	3	10.2	14	120
AUG									
16...	1229	4090	235	8.5	13.0	1	8.9	21	160
SEP									
15...	1324	2450	329	8.8	12.5	8	8.3	3	170

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT									
09...	--	--	--	--	--	--	--	--	--
24...	57	53	12	8.7	.3	2.3	150	0	120
NOV									
19...	--	--	--	--	--	--	--	--	--
28...	59	56	12	10	.3	2.3	160	0	130
DEC									
18...	47	50	11	11	.4	2.4	150	0	120
JAN									
07...	--	--	--	--	--	--	--	--	--
22...	47	50	13	11	.4	2.3	160	0	130
FEB									
19...	--	--	--	--	--	--	--	--	--
27...	47	50	11	9.2	.3	2.8	150	0	120
MAR									
18...	39	51	11	9.8	.3	1.3	160	0	130
APR									
16...	47	48	11	12	.4	3.1	150	0	120
MAY									
19...	22	36	6.8	7.0	.3	1.5	120	0	98
JUN									
19...	20	34	6.2	4.0	.2	1.8	110	0	90
JUL									
14...	30	36	7.5	4.0	.2	1.1	110	0	90
AUG									
16...	43	46	8.4	7.7	.3	1.4	130	6	120
SEP									
15...	62	54	9.7	6.5	.2	.9	120	6	110

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT									
09...	--	--	--	--	--	--	--	--	--
24...	58	5.2	.4	11	226	.31	1010	.00	.020
NOV									
19...	--	--	--	--	--	--	--	--	--
28...	64	6.0	.5	12	243	.33	--	.00	.000
DEC									
18...	59	5.0	.5	12	227	.31	--	.00	.040
JAN									
07...	--	--	--	--	--	--	--	--	--
22...	56	6.8	.5	12	231	.31	--	.08	.020
FEB									
19...	--	--	--	--	--	--	--	--	--
27...	57	5.3	.5	12	223	.30	--	.57	.030
MAR									
18...	48	9.3	.5	9.9	219	.30	--	.11	.010
APR									
16...	56	3.9	.5	9.7	218	.30	1170	<.01	.020
MAY									
19...	33	2.0	.5	9.7	160	.22	4410	.00	.030
JUN									
19...	21	2.0	.6	10	130	.18	5050	.00	.030
JUL									
14...	30	2.0	.4	9.2	150	.20	2880	2.6	.010
AUG									
16...	30	4.3	.4	9.8	173	.24	1910	.82	.030
SEP									
15...	67	3.2	.4	5.8	210	.29	1390	.00	.040

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°08'35", long 110°58'34", in SW¼SE¼ sec.34, T.37 N., R.118 W., (unsurveyed), Lincoln County, Hydrologic Unit 17040103, on right bank at Bridge Campground, 3.0 mi (4.8 km) upstream from maximum flowline of Palisades Reservoir, and 3.6 mi (5.8 km) southeast of Alpine.

DRAINAGE AREA.--448 mi² (1,160 km²). Mean altitude, 8,080 ft (2,460 m).

PERIOD OF RECORD.--July to September 1917, June to September 1918, March 1937 to March 1939, October 1953 to current year. Published as Greys River near Alpine, ID, 1917-18 and as Greys River near Alpine, WY, 1937-39.

REVISED RECORDS.--WRD ID 1967: 1966.

GAGE.--Water-stage recorder. Altitude of gage is 5,720 ft (1,740 m), from topographic map. July 6 to Sept. 30, 1917, and June 4 to Sept. 30, 1918, nonrecording gage and Mar. 17, 1937, to Mar. 31, 1939, water-stage recorder, at site 1.8 mi (2.9 km) downstream, and October 1953 to Sept. 22, 1965, water-stage recorder at site 1 mi (1.6 km) downstream at different datums.

REMARKS.--Records fair. Less than 500 acres (202 hm²) irrigated by diversions from Greys River and tributaries above station.

AVERAGE DISCHARGE.--28 years (water years 1938, 1954-80), 654 ft³/s (18.52 m³/s), 19.82 in/yr (503 mm/yr), 473,800 acre-ft (584 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,230 ft³/s (205 m³/s) June 19, 1971, gage height, 6.33 ft (1.929 m); maximum gage height observed, 19.1 ft (5.82 m), former site and datum, about Dec. 18, 1965 (ice jam); minimum daily discharge, 92 ft³/s (2.61 m³/s) Jan. 2, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 30	2100	2,260	64.0	4.18	1.274	May 24	0900	*2,960	83.8	4.76	1.451

Minimum daily discharge, 125 ft³/s (3.54 m³/s) Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	276	228	180	150	183	215	2020	1810	1570	676	480
2	281	257	260	175	175	178	215	1960	1890	1530	653	475
3	274	290	303	170	180	193	220	1750	2050	1480	647	460
4	279	300	283	170	170	195	225	1910	1950	1410	635	455
5	281	301	275	180	160	194	235	1980	2070	1340	624	440
6	281	283	271	180	180	188	240	1980	2230	1300	596	440
7	278	281	279	185	195	169	235	2080	1910	1230	585	445
8	274	266	242	190	185	187	230	2100	1950	1180	585	440
9	274	275	235	195	165	191	230	1960	1910	1150	579	435
10	273	263	231	180	150	187	240	1750	2070	1130	563	435
11	272	288	204	160	170	182	245	1530	2260	1140	557	445
12	271	252	185	190	175	188	245	1380	2280	1110	541	475
13	271	255	224	230	170	190	250	1260	2300	984	530	460
14	272	271	221	250	170	195	265	1200	2240	1020	520	460
15	277	278	245	240	180	190	373	1220	2170	960	568	431
16	305	289	260	220	180	185	445	1250	1960	916	587	424
17	284	334	245	195	190	170	509	1250	1950	901	541	426
18	282	307	249	185	195	185	635	1300	1980	901	510	428
19	403	240	256	180	195	200	820	1550	2040	887	500	425
20	423	222	275	175	190	215	1110	1920	2120	852	515	430
21	340	200	271	175	189	215	1380	2210	2160	826	495	430
22	319	185	267	170	188	210	1560	2370	2150	802	480	430
23	309	214	260	175	185	205	1730	2610	2160	790	460	435
24	305	260	252	180	178	200	1800	2750	2080	772	455	440
25	302	264	264	175	163	200	1750	2550	1930	778	465	440
26	311	260	256	165	173	205	1900	2230	1860	754	541	430
27	303	249	235	145	179	205	1860	1970	1830	742	505	411
28	299	198	210	125	183	215	1910	1840	1710	724	505	401
29	299	188	180	140	190	225	1840	1860	1630	718	485	396
30	292	208	170	140	---	225	1980	1760	1560	718	480	391
31	274	---	175	135	---	220	---	1780	---	700	490	---
TOTAL	9192	7754	7511	5555	5153	6090	24892	57280	60210	31315	16873	13113
MEAN	297	258	242	179	178	196	830	1848	2007	1010	544	437
MAX	423	334	303	250	195	225	1980	2750	2300	1570	676	480
MIN	271	185	170	125	150	169	215	1200	1560	700	455	391
AC-FT	18230	15380	14900	11020	10220	12080	49370	113600	119400	62110	33470	26010

CAL YR 1979 TOTAL 196733 MEAN 539 MAX 2550 MIN 150 AC-FT 390200
WTR YR 1980 TOTAL 244938 MEAN 669 MAX 2750 MIN 125 AC-FT 485800

13025000 SWIFT CREEK NEAR AFTON, WY

LOCATION.--Lat 42°43'30", long 110°54'00", in SE¼ sec.29, T.32 N., R.118 W., Lincoln County, Hydrologic Unit 17040105, Bridger National Forest, on right bank 1.0 mi (1.6 km) upstream from mouth of canyon, 1.5 mi (2.4 km) east of Afton, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--27.4 mi^2 (71.0 km^2).

PERIOD OF RECORD.--October 1942 to September 1980 (discontinued). No winter records since 1971. Monthly discharge only for some periods, published in WSP 1317.

GAGE.--Water-stage recorder. Altitude of gage is 6,420 ft (1,957 m), from topographic map.

REMARKS.--Records good. Small powerplant and reservoir, adjudication, 48.45 acre-ft/yr (0.060 hm^3/yr), 0.2 mi (0.3 km) upstream. Pipeline, adjudication, 2.5 ft^3/s (0.071 m^3/s), diverts water above station for town of Afton. No diversion for irrigation above station.

COOPERATION.--Records collected and computed by Office of the Wyoming State Engineer and reviewed by Geological Survey.

AVERAGE DISCHARGE.--29 years (water years 1943-71), 86.9 ft^3/s (2.461 m^3/s), 62,960 acre-ft/yr (77.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 793 ft^3/s (22.5 m^3/s) July 6, 1975, gage height, 3.78 ft (1.152 m); minimum daily, 20 ft^3/s (0.57 m^3/s) Dec. 30, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 383 ft^3/s (10.8 m^3/s) June 20, gage height 3.05 ft (0.930 m), no peak above base of 390 ft^3/s (11.0 m^3/s); minimum daily during period of operation, 29 ft^3/s (0.82 m^3/s) Apr. 1-3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							29	111	140	311	107	62
2							29	111	138	311	105	61
3							29	107	143	302	102	65
4							30	111	143	298	98	69
5							30	117	147	273	95	67
6							30	121	150	266	91	67
7							30	140	147	247	91	67
8							30	143	155	255	89	65
9							31	147	190	251	86	65
10							32	143	266	240	85	65
11							31	134	327	220	81	67
12							32	127	378	198	78	69
13							33	117	378	187	77	67
14							33	111	373	178	77	65
15							35	109	336	187	80	64
16							36	107	281	195	81	62
17							37	105	273	192	78	61
18							39	104	327	181	77	60
19							43	109	345	175	75	61
20							50	125	373	170	71	60
21							56	165	373	157	69	60
22							68	227	336	150	68	59
23							75	290	345	147	68	57
24							85	290	336	140	69	57
25							77	247	327	131	68	57
26							81	207	332	127	69	57
27							86	181	315	121	69	57
28							89	168	270	117	67	57
29							93	162	251	113	65	57
30							107	143	270	113	65	57
31							---	143	---	109	64	---
TOTAL							1486	4622	8165	6062	2465	1864
MEAN							49.5	149	272	196	79.5	62.1
MAX							107	290	378	311	107	69
MIN							29	104	138	109	64	57
AC-FT							2950	9170	16200	12020	4890	3700

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY

LOCATION.--Lat 43°04'47", long 111°02'12", in SW¼NE¼ sec.28, T.36 N., R.119 W., Lincoln County, Hydrologic Unit 17040105, on right bank 3.4 mi (5.5 km) northwest of Etna and 8.0 mi (12.9 km) upstream from maximum flowline of Palisades Reservoir.

DRAINAGE AREA.--829 mi^2 (2,147 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,675.78 ft (1,729.977 m), National Geodetic Vertical Datum of 1929 (levels by WPRS).

REMARKS.--Records good. Diversions above station for power developments, industry, municipal supply, and irrigation of about 60,500 acres (245 km^2) of which about 1,000 acres (405 hm^2) are below station (1966 determination). For details on adjudication of diversions, see Remarks for this station in WSP 1347.

AVERAGE DISCHARGE.--27 years, 773 ft^3/s (21.89 m^3/s), 560,000 acre-ft/yr (690 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,870 ft^3/s (110 m^3/s) June 1, 1971, gage height, 5.30 ft (1.615 m); minimum, 160 ft^3/s (4.53 m^3/s) Jan. 7, 8, 1971, gage height, 1.53 ft (0.466 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,550 ft^3/s (72.2 m^3/s) June 6, 7, gage height, 4.39 ft (1.338 m); minimum, 235 ft^3/s (6.66 m^3/s) Jan. 28, gage height, 1.66 ft (0.506 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	486	507	441	387	353	424	400	2010	2010	1160	623	686
2	488	505	422	393	375	425	394	1960	2000	1210	616	693
3	484	507	452	380	394	436	391	1880	2360	1220	595	678
4	486	514	449	391	402	434	395	1880	2530	1230	582	670
5	487	514	442	393	388	432	413	1950	2520	1200	574	663
6	484	507	442	373	383	433	434	1980	2540	1130	558	655
7	482	503	442	370	397	416	430	2050	2490	1090	534	655
8	480	497	442	396	378	416	422	2160	2370	1120	538	670
9	475	494	442	392	360	414	425	2250	2280	1080	538	678
10	477	493	442	402	367	413	432	2290	2250	1080	535	678
11	489	494	421	354	380	412	429	2250	2240	1000	533	708
12	487	488	386	434	376	415	432	2160	2240	979	534	740
13	487	483	405	490	369	413	457	2080	2230	945	526	748
14	486	480	393	508	354	415	484	1950	2220	920	514	732
15	485	479	385	497	376	420	530	1850	2220	914	541	708
16	490	475	403	471	365	422	591	1870	2190	866	598	701
17	482	479	393	459	366	417	652	2000	2000	842	612	693
18	485	484	373	444	392	417	731	1890	1810	827	598	693
19	528	479	366	432	449	418	862	1820	1740	819	584	693
20	567	473	386	402	458	416	1080	1800	1660	792	598	678
21	545	458	380	411	460	420	1350	1840	1670	772	605	686
22	524	441	383	411	450	416	1510	1900	1620	730	605	686
23	516	440	383	409	444	416	1650	2030	1530	706	598	686
24	510	461	382	429	431	416	1790	2290	1450	689	591	686
25	510	457	390	434	428	418	1620	2360	1390	732	591	670
26	507	458	389	416	429	412	1740	2290	1320	719	655	670
27	508	453	377	379	427	413	1740	2150	1270	709	663	663
28	508	435	373	328	428	412	1770	2030	1200	656	686	655
29	507	411	379	361	433	399	1840	2050	1160	630	678	655
30	507	440	371	360	---	401	1950	2030	1140	632	670	648
31	502	---	372	335	---	400	---	1960	---	627	686	---
TOTAL	15459	14309	12506	12641	11612	12931	27344	63010	57650	28026	18359	20525
MEAN	499	477	403	408	400	417	911	2033	1922	904	592	684
MAX	567	514	452	508	460	436	1950	2360	2540	1230	686	748
MIN	475	411	366	328	353	399	391	1800	1140	627	514	648
AC-FT	30660	28380	24810	25070	23030	25650	54240	125000	114300	55590	36420	40710

CAL YR 1979 TOTAL 225806 MEAN 619 MAX 1800 MIN 279 AC-FT 447900
WTR YR 1980 TOTAL 294372 MEAN 804 MAX 2540 MIN 328 AC-FT 583900

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1977 to September 1979.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARDNESS (MG/L AS CACO3)
OCT									
08...	1555	478	599	--	11.5	--	--	--	--
24...	1640	--	480	8.5	10.0	2	11.4	K6	240
NOV									
23...	1025	430	362	--	5.0	--	--	--	--
28...	1650	--	470	8.2	1.5	4	11.2	33	230
DEC									
18...	1710	--	490	8.0	1.5	4	11.1	48	230
JAN									
11...	1152	295	484	--	2.0	--	--	--	--
22...	1740	--	460	8.0	1.5	4	10.6	26	230
FEB									
18...	1110	387	540	--	5.0	--	--	--	--
27...	1745	--	580	8.1	7.0	4	10.2	K10	220
MAR									
18...	1315	--	580	8.2	7.0	6	11.6	K1	230
APR									
15...	1852	533	382	8.4	12.0	20	9.6	85	240
MAY									
19...	1213	1750	347	8.2	10.0	19	10.0	110	210
JUN									
19...	1903	1720	432	8.2	15.0	20	8.3	100	200
JUL									
14...	1131	880	--	8.1	7.0	5	10.1	230	230
AUG									
16...	1712	615	338	8.1	13.0	1	8.8	340	240
SEP									
15...	1100	708	474	7.9	9.0	10	9.8	44	250

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)
OCT									
08...	--	--	--	--	--	--	--	--	--
24...	43	65	18	15	.4	1.3	240	0	200
NOV									
23...	--	--	--	--	--	--	--	--	--
28...	33	64	18	15	.4	1.3	240	0	200
DEC									
18...	33	63	17	15	.4	1.5	240	0	200
JAN									
11...	--	--	--	--	--	--	--	--	--
22...	35	60	20	18	.5	1.5	240	0	200
FEB									
18...	--	--	--	--	--	--	--	--	--
27...	31	62	16	23	.7	2.0	230	0	190
MAR									
18...	25	64	17	15	.4	.3	250	0	200
APR									
15...	35	65	18	30	.8	3.0	250	--	200
MAY									
19...	21	60	14	11	.3	1.6	230	0	190
JUN									
19...	15	60	12	12	.4	1.8	220	3	180
JUL									
14...	33	66	15	8.0	.2	.7	240	0	200
AUG									
16...	51	62	21	13	.4	1.2	230	0	190
SEP									
15...	37	66	22	19	.5	.4	260	0	210

SALT RIVER BASIN

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT									
08...	--	--	--	--	--	--	--	--	--
24...	35	17	.2	5.6	278	.38	--	.70	.030
NOV									
23...	--	--	--	--	--	--	--	--	--
28...	29	21	.2	5.6	277	.38	--	.60	.030
DEC									
18...	36	16	.2	7.3	277	.38	--	.66	.190
JAN									
11...	--	--	--	--	--	--	--	--	--
22...	39	21	.2	7.1	285	.39	--	.09	.090
FEB									
18...	--	--	--	--	--	--	--	--	--
27...	35	27	.2	6.0	292	.40	--	1.0	.080
MAR									
18...	27	26	.1	5.7	276	.38	--	.89	.060
APR									
15...	31	33	.1	6.3	313	.43	450	.69	.170
MAY									
19...	25	13	.2	7.2	250	.34	1180	.43	.030
JUN									
19...	23	11	.2	7.8	240	.33	1110	.45	.010
JUL									
14...	23	13	.2	5.6	250	.34	594	1.9	.020
AUG									
16...	37	15	.1	6.8	259	.35	430	.91	.040
SEP									
15...	51	11	.1	5.2	310	.42	593	1.6	.070

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station Name	Location	Drainage area (sq mi)	Period of Record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Green River basin					
09204700	Sand Springs Draw tributary near Boulder, WY	Lat 42°35'07", long 109°37'23", in SW¼NE¼ sec.8, T.30 N., R.107 W., Sublette County, at culvert on U.S. Highway 187 and 12.4 miles southeast of Boulder.	2.77	1961-80	7- 2-80	4.61	6
09207650	Dry Basin Creek near Big Piney, WY	Lat 42°25'28", long 110°06'35", in SW¼NW¼ sec.12, T.28 N., R.112 W., Sublette County, just downstream from bridge on U.S. Highway 89, about 2,000 ft upstream from mouth, and 7.8 miles south of Big Piney.	47.2	1971-80	5-12-80	(a)	b8
09211300	Fourmile Gulch tributary near Fontenelle, WY	Lat 42°03'09", long 109°59'40", in SW¼SE¼ sec.15, T.24 N., R.111 W., Sweetwater County, 0.7 mile upstream from Lincoln-Sweetwater Road and 6.0 miles northeast of Fontenelle.	14.2	1971-80	5- 9-80	5.39	6
09216290	East Otterson Wash near Green River, WY	Lat 41°47'04", long 109°44'03", in SE¼SW¼NE¼ sec.23, T.21 N., R.109 W., Sweetwater County, 0.1 mile downstream from dirt road, 0.9 mile upstream from mouth, and 21 miles northwest of Green River.	16.6	1969-80	5-17-80	5.53	85
09216350	Skunk Canyon Creek near Green River, WY	Lat 41°43'55", long 109°30'39", in NW¼NE¼ sec.8, T.20 N., R.107 W., Sweetwater County, 0.4 mile upstream from mouth and 14.0 miles north of Green River.	15.7	1965, 1971-80	5-17-80	4.40	10
09216537	Delaney Draw near Red Desert, WY	Lat 41°38'22", long 108°07'43", in SW¼NE¼ sec.8, T.19 N., R.95 W., Sweetwater County, 1.0 mile southwest of Red Desert and 1.7 miles upstream from culvert on Interstate Highway 80. Oct. 1, 1960, to Sept. 30, 1969, at site 1.6 miles downstream and Oct. 1, 1969, to Sept. 30, 1976, at site 0.4 mile downstream at different datums.	34.5	1961-80	5-17-80	14.76	260
09216550	Deadman Wash near Point of Rocks, WY	Lat 41°40'30", long 108°44'10", in SE¼ sec.25, T.20 N., R.101 W., Sweetwater County, at bridge on old U.S. Highway 30 and 2.8 miles east of Point of Rocks.	[illegible]	1962-80	5- 5-80	7.58	570
09216576	Gap Creek below Beans Spring Creek, near South Baxter, WY	Lat 41°12'25", long 109°03'09", in NW¼NW¼SE¼ sec.7, T.14 N., R.103 W., Sweetwater County, 0.1 mile upstream from county bridge, 0.5 mile south of Titsworth Springs, 12 miles south of of South Baxter, and 28 miles south of Rock Springs.	35.9	1976,[‡] 1977-80	[illegible]-20-80	3.13	65
09216580	Big Flat Draw near Rock Springs, WY	Lat 41°18'57", long 108°53'50", in NE¼NW¼NE¼ sec.4, T.15 N., R.102 W., Sweetwater County, 0.3 mile upstream from mouth and 25 miles southeast of Rock Springs.	19.5	1973-80	5-12-80	16.19	143

See footnotes at end of table, p. 252.

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT									
08...	--	--	--	--	--	--	--	--	--
24...	35	17	.2	5.6	278	.38	--	.70	.030
NOV									
23...	--	--	--	--	--	--	--	--	--
28...	29	21	.2	5.6	277	.38	--	.60	.030
DEC									
18...	36	16	.2	7.3	277	.38	--	.66	.190
JAN									
11...	--	--	--	--	--	--	--	--	--
22...	39	21	.2	7.1	285	.39	--	.09	.090
FEB									
18...	--	--	--	--	--	--	--	--	--
27...	35	27	.2	6.0	292	.40	--	1.0	.080
MAR									
18...	27	26	.1	5.7	276	.38	--	.89	.060
APR									
15...	31	33	.1	6.3	313	.43	450	.69	.170
MAY									
19...	25	13	.2	7.2	250	.34	1180	.43	.030
JUN									
19...	23	11	.2	7.8	240	.33	1110	.45	.010
JUL									
14...	23	13	.2	5.6	250	.34	594	1.9	.020
AUG									
16...	37	15	.1	6.8	259	.35	430	.91	.040
SEP									
15...	51	11	.1	5.2	310	.42	593	1.6	.070

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station Name	Location	Drainage area (sq mi)	Period of Record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Green River basin					
09204700	Sand Springs Draw tributary near Boulder, WY	Lat 42°35'07", long 109°37'23", in SW¼NE¼ sec.8, T.30 N., R.107 W., Sublette County, at culvert on U.S. Highway 187 and 12.4 miles southeast of Boulder.	2.77	1961-80	7- 2-80	4.61	6
09207650	Dry Basin Creek near Big Piney, WY	Lat 42°25'28", long 110°06'35", in SW¼NW¼ sec.12, T.28 N., R.112 W., Sublette County, just downstream from bridge on U.S. Highway 89, about 2,000 ft upstream from mouth, and 7.8 miles south of Big Piney.	47.2	1971-80	5-12-80	(a)	b8
09211300	Fourmile Gulch tributary near Fontenelle, WY	Lat 42°03'09", long 109°59'40", in SW¼SE¼ sec.15, T.24 N., R.111 W., Sweetwater County, 0.7 mile upstream from Lincoln-Sweetwater Road and 6.0 miles northeast of Fontenelle.	14.2	1971-80	5- 9-80	5.39	6
09216290	East Otterson Wash near Green River, WY	Lat 41°47'04", long 109°44'03", in SE¼SW¼NE¼ sec.23, T.21 N., R.109 W., Sweetwater County, 0.1 mile downstream from dirt road, 0.9 mile upstream from mouth, and 21 miles northwest of Green River.	16.6	1969-80	5-17-80	5.53	85
09216350	Skunk Canyon Creek near Green River, WY	Lat 41°43'55", long 109°30'39", in NW¼NE¼ sec.8, T.20 N., R.107 W., Sweetwater County, 0.4 mile upstream from mouth and 14.0 miles north of Green River.	15.7	1965, 1971-80	5-17-80	4.40	10
09216537	Delaney Draw near Red Desert, WY	Lat 41°38'22", long 108°07'43", in SW¼NE¼ sec.8, T.19 N., R.95 W., Sweetwater County, 1.0 mile southwest of Red Desert and 1.7 miles upstream from culvert on Interstate Highway 80. Oct. 1, 1960, to Sept. 30, 1969, at site 1.6 miles downstream and Oct. 1, 1969, to Sept. 30, 1976, at site 0.4 mile downstream at different datums.	34.5	1961-80	5-17-80	14.76	260
09216550	Deadman Wash near Point of Rocks, WY	Lat 41°40'30", long 108°44'10", in SE¼ sec.25, T.20 N., R.101 W., Sweetwater County, at bridge on old U.S. Highway 30 and 2.8 miles east of Point of Rocks.	152	1962-80	5- 5-80	7.58	570
09216576	Gap Creek below Beans Spring Creek, near South Baxter, WY	Lat 41°12'25", long 109°03'09", in NW¼NW¼SE¼ sec.7, T.14 N., R.103 W., Sweetwater County, 0.1 mile upstream from county bridge, 0.5 mile south of Titsworth Springs, 12 miles south of of South Baxter, and 28 miles south of Rock Springs.	35.9	1976,† 1977-80	4-20-80	3.13	65
09216580	Big Flat Draw near Rock Springs, WY	Lat 41°18'57", long 108°53'50", in NE¼NW¼NE¼ sec.4, T.15 N., R.102 W., Sweetwater County, 0.3 mile upstream from mouth and 25 miles southeast of Rock Springs.	19.5	1973-80	5-12-80	16.19	143

See footnotes at end of table, p. 252.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station Name	Location	Drainage area (sq mi)	Period of Record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Green River basin--Continued					
09216600	Cutthroat Draw near Rock Springs, WY	Lat 41°27'25", long 108°56'30", in NW¼ sec.17, T.17 N., R.102 W., Sweetwater County, at culvert on State Highway 430 and 17 miles southeast of Rock Springs.	7.88	1959-80	8-26-80	5.70	76
09216695	No Name Creek near Rock Springs, WY	Lat 41°28'54", long 108°58'17", in SW¼SW¼NE¼ sec.1, T.17 N., R.103 W., Sweetwater County, 700 ft upstream from mouth and 15 miles southeast of Rock Springs.	18.2	1973-80	5-30-80	15.43	46
09216900	Bitter Creek tributary near Green River, WY	Lat 41°31'58", long 109°22'49", in SE¼SW¼ sec.16, T.18 N., R.106 W., Sweetwater County, at culvert on U.S. Highway 30 and 4 miles east of Green River.	1.65	1959-80	4- 5-80	14.51	(*)
09221680	Mud Spring Hollow near Church Butte, near Lyman, WY	Lat 41°23'05", long 110°11'12", in SW¼NE¼ sec.7, T.16 N., R.113 W., Uinta County, on left bank 0.4 mile upstream from culvert on U.S. Highway 30S and 6.7 miles northeast of Lyman.	8.83	1965-80	5-12-80	1.00	14
09224600	Blacks Fork tributary near Granger, WY	Lat 41°32'04", long 109°56'11", in SE¼SW¼ sec.15, T.18 N., R.111 W., Sweetwater County, at culvert on U.S. Highway 30S and 4.3 miles south of Granger. (Peaks after 1966 affected by small stockwater reservoir 0.1 mile upstream.)	5.03	1959-80	4-11-79 5-12-80	c6.85 6.61	c97 81
09224800	Meadow Springs Wash tributary near Green River, WY	Lat 41°32'37", long 109°45'36", in SE¼NW¼ sec.18, T.18 N., R.109 W., Sweetwater County, at culvert on Interstate Highway 80 and 15 miles west of Green River. Prior to Oct. 1, 1970, 150 ft upstream at culvert on U.S. Highway 30.	5.22	1962-65, 1968-80	4- 5-80	1.19	14
09224810	Blacks Fork tributary No. 2 near Green River, WY	Lat 41°27'35", long 109°37'20", in SW¼SE¼ sec.8, T.17 N., R.108 W., Sweetwater County, 600 ft upstream from dirt road, 1.3 miles upstream from mouth, and 8.7 miles southwest of Green River.	12.0	1965-80	4- 5-80	4.67	.8
09224820	Blacks Fork tributary No. 3 near Green River, WY	Lat 41°25'30", long 109°36'55", in SW¼NW¼ sec.28, T.17 N., R.108 W., Sweetwater County, 50 ft upstream from dirt road, 1 mile upstream from mouth, and 10.5 miles southwest of Green River.	3.59	1965-80	4- 5-80	6.16	23
09224840	Blacks Fork tributary No. 4 near Green River, WY	Lat 41°24'40", long 109°36'05", in SE¼NE¼ sec.33, T.17 N., R.108 W., Sweetwater County, 700 ft downstream from dirt road, 1 mile upstream from mouth, and 10.9 miles southwest of Green River.	1.26	1965-80	4- 5-80	5.19	12
09224980	Summers Dry Creek near Green River, WY	Lat 41°22'25", long 109°38'40", in NW¼NE¼ sec.13, T.16 N., R.109 W., Sweetwater County, 600 ft downstream from Little Dry Creek, 1.6 miles upstream from mouth, and 14.2 miles southwest of Green River.	423	1965-80	7- 2-80	9.43	2,300
09225200	Squaw Hollow near Burntfork, WY	Lat 41°10'14", long 109°36'34", in NE¼NW¼ sec.29, T.14 N., R.108 W., Sweetwater County, 0.1 mile downstream from culvert on State Highway 530, 2.1 miles upstream from normal pool level of Flaming Gorge Reservoir, and 22 miles northeast of Burntfork. Prior to Oct. 1, 1969, at site 0.1 mile upstream at different datum.	6.57	1965-80	7- 2-80	14.59	430

See footnotes at end of table, p. 252.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station Name	Location	Drainage area (sq mi)	Period of Record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Green River basin--Continued					
09225300	Green River tributary No. 2 near Burntfork, WY	Lat 41°03'40", long 109°37'05", in NE¼SE¼ sec.31, T.13 N., R.108 W., Sweetwater County, 200 ft downstream from State Highway 530, 7.4 miles northeast of Manila, UT, and 20.6 miles east of Burntfork. Prior to Oct. 1, 1971, at site 300 ft upstream at datum 10.00 ft higher.	13.0	1959, 1961-80	5-12-80 8-26-80	7.82 7.82	(*) (*)
09258200	Dry Cow Creek near Baggs, WY	Lat 41°20'24", long 107°40'14", in SE¼SE¼ sec.19, T.16 N., R.91 W., Carbon County, 1.6 miles upstream from county road, 4.3 miles upstream from mouth, and 21 miles north of Baggs.	49.7	1970-80	4-22-80	8.62	400
		Bear River basin					
10019700	Whitney Canyon Creek near Evanston, WY	Lat 41°25'42", long 110°58'21", in SE¼NW¼ sec.27, T.17 N., R.120 W., Uinta County, at culvert on dirt road and 11.1 miles north of Evanston.	8.93	1965-80	4-30-80	5.25	21
		Hoback River basin					
13019220	Sour Moose Creek near Bondurant, WY	Lat 43°09'00", long 110°15'20", in N½ sec.26, T.37 N., R.112 W., Sublette County, Teton National Forest, at culvert on U.S. Highway 187, and 9.5 miles southeast of Bondurant.	2.77	1964-80	5- 8-80	6.15	26

‡ Operated as a continuous-record gaging station.
* Discharge not determined.
a Gage height not representative.
b Estimated.
c Revised.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station Name	Location	Drainage area (sq mi)	Period of Record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (cfs)
		Green River basin--Continued					
09216600	Cutthroat Draw near Rock Springs, WY	Lat 41°27'25", long 108°56'30", in NW¼ sec.17, T.17 N., R.102 W., Sweetwater County, at culvert on State Highway 430 and 17 miles southeast of Rock Springs.	7.88	1959-80	8-26-80	5.70	76
09216695	No Name Creek near Rock Springs, WY	Lat 41°28'54", long 108°58'17", in SW¼SW¼NE¼ sec.1, T.17 N., R.103 W., Sweetwater County, 700 ft upstream from mouth and 15 miles southeast of Rock Springs.	18.2	1973-80	5-30-80	15.43	46
09216900	Bitter Creek tributary near Green River, WY	Lat 41°31'58", long 109°22'49", in SE¼SW¼ sec.16, T.18 N., R.106 W., Sweetwater County, at culvert on U.S. Highway 30 and 4 miles east of Green River.	1.65	1959-80	4- 5-80	14.51	(*)
09221680	Mud Spring Hollow near Church Butte, near Lyman, WY	Lat 41°23'05", long 110°11'12", in SW¼NE¼ sec.7, T.16 N., R.113 W., Uinta County, on left bank 0.4 mile upstream from culvert on U.S. Highway 30S and 6.7 miles northeast of Lyman.	8.83	1965-80	5-12-80	1.00	14
09224600	Blacks Fork tributary near Granger, WY	Lat 41°32'04", long 109°56'11", in SE¼SW¼ sec.15, T.18 N., R.111 W., Sweetwater County, at culvert on U.S. Highway 30S and 4.3 miles south of Granger. (Peaks after 1966 affected by small stockwater reservoir 0.1 mile upstream.)	5.03	1959-80	4-11-79 5-12-80	c6.85 6.61	c97 81
09224800	Meadow Springs Wash tributary near Green River, WY	Lat 41°32'37", long 109°45'36", in SE¼NW¼ sec.18, T.18 N., R.109 W., Sweetwater County, at culvert on Interstate Highway 80 and 15 miles west of Green River. Prior to Oct. 1, 1970, 150 ft upstream at culvert on U.S. Highway 30.	5.22	1962-65, 1968-80	4- 5-80	1.19	14
09224810	Blacks Fork tributary No. 2 near Green River, WY	Lat 41°27'35", long 109°37'20", in SW¼SE¼ sec.8, T.17 N., R.108 W., Sweetwater County, 600 ft upstream from dirt road, 1.3 miles upstream from mouth, and 8.7 miles southwest of Green River.	12.0	1965-80	4- 5-80	4.67	.8
09224820	Blacks Fork tributary No. 3 near Green River, WY	Lat 41°25'30", long 109°36'55", in SW¼NW¼ sec.28, T.17 N., R.108 W., Sweetwater County, 50 ft upstream from dirt road, 1 mile upstream from mouth, and 10.5 miles southwest of Green River.	3.59	1965-80	4- 5-80	6.16	23
09224840	Blacks Fork tributary No. 4 near Green River, WY	Lat 41°24'40", long 109°36'05", in SE¼NE¼ sec.33, T.17 N., R.108 W., Sweetwater County, 700 ft downstream from dirt road, 1 mile upstream from mouth, and 10.9 miles southwest of Green River.	1.26	1965-80	4- 5-80	5.19	12
09224980	Summers Dry Creek near Green River, WY	Lat 41°22'25", long 109°38'40", in NW¼NE¼ sec.13, T.16 N., R.109 W., Sweetwater County, 600 ft downstream from Little Dry Creek, 1.6 miles upstream from mouth, and 14.2 miles southwest of Green River.	423	1965-80	7- 2-80	9.43	2,300
09225200	Squaw Hollow near Burntfork, WY	Lat 41°10'14", long 109°36'34", in NE¼NW¼ sec.29, T.14 N., R.108 W., Sweetwater County, 0.1 mile downstream from culvert on State Highway 530, 2.1 miles upstream from normal pool level of Flaming Gorge Reservoir, and 22 miles northeast of Burntfork. Prior to Oct. 1, 1969, at site 0.1 mile upstream at different datum.	6.57	1965-80	7- 2-80	14.59	430

See footnotes at end of table, p. 252.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations--Continued

Station No.	Station Name	Location	Drainage area (sq mi)	Period of Record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Green River basin--Continued							
09225300	Green River tributary No. 2 near Burntfork, WY	Lat 41°03'40", long 109°37'05", in NE¼SE¼ sec.31, T.13 N., R.108 W., Sweetwater County, 200 ft downstream from State Highway 530, 7.4 miles northeast of Manila, UT, and 20.6 miles east of Burntfork. Prior to Oct. 1, 1971, at site 300 ft upstream at datum 10.00 ft higher.	13.0	1959, 1961-80	5-12-80 8-26-80	7.82 7.82	(†) (†)
09258200	Dry Cow Creek near Baggs, WY	Lat 41°20'24", long 107°40'14", in SE¼SE¼ sec.19, T.16 N., R.91 W., Carbon County, 1.6 miles upstream from county road, 4.3 miles upstream from mouth, and 21 miles north of Baggs.	49.7	1970-80	4-22-80	8.62	400
Bear River basin							
10019700	Whitney Canyon Creek near Evanston, WY	Lat 41°25'42", long 110°58'21", in SE¼NW¼ sec.27, T.17 N., R.120 W., Uinta County, at culvert on dirt road and 11.1 miles north of Evanston.	8.93	1965-80	4-30-80	5.25	21
Hoback River basin							
13019220	Sour Moose Creek near Bondurant, WY	Lat 43°09'00", long 110°15'20", in N½ sec.26, T.37 N., R.112 W., Sublette County, Teton National Forest, at culvert on U.S. Highway 187, and 9.5 miles southeast of Bondurant.	2.77	1964-80	5- 8-80	6.15	26

‡ Operated as a continuous-record gaging station.
† Discharge not determined.
a Gage height not representative.
b Estimated.
c Revised.

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Cache Creek at Game Creek Trail, near Jackson, WY	Flat Creek	Lat 43°26'24", long 110°40'04", T.40 N., R.115 W., Teton County, Teton National Forest, at Game Creek Trail crossing, 0.3 mile upstream from unnamed tributary, and 4.7 miles southeast of Jackson.	6.2		8-20-80 9-23-80	7.01 4.48
Game Creek at end of road, near Jackson, WY	Flat Creek	Lat 43°25'24", long 110°42'06", T.40 N., R.116 W., Teton County, Teton National Forest, 2.9 miles southeast of Jackson, and 3.0 miles upstream from mouth.	4.9		8-20-80 9-23-80	1.59 1.27
Game Creek near Jackson, WY	Flat Creek	Lat 43°23'48", long 110°42'47", in NE¼SE¼SE¼ sec.26, T.40 N., R.116 W., Teton County, Teton National Forest, 1.9 miles upstream from mouth, and 5.7 miles southeast of Jackson.	9.2		8-20-80 9-23-80	.98 .26
Horse Creek above Little Horse Creek, near Jackson, WY	Snake River	Lat 43°21'08", long 110°40'47", in NW¼NE¼NE¼ sec.18, T.39 N., R.115 W., Teton County, Teton National Forest, 400 feet upstream from culvert on private road, 2.9 miles upstream from mouth, and 2.9 miles southeast of Jackson.	23.9		8-21-80 9-24-80	8.76 7.83
Little Horse Creek near Jackson, WY	Snake River	Lat 43°20'28", long 110°40'57", in NW¼SE¼SE¼ sec.18, T.39 N., R.115 W., Teton County, Teton National Forest, 0.8 mile upstream from mouth, and 9.8 miles southeast of Jackson.	10.7		8-21-80 9-24-80	1.07 .65
Little Granite Creek above Coal Creek, at campground, near Jackson, WY	Granite Creek	Lat 43°19'00", long 110°30'14", in SW¼NE¼NE¼ sec.27, T.39 N., R.114 W., Teton County, Teton National Forest, 300 feet upstream from mouth, and 16.4 miles southeast of Jackson.	8.0		8-19-80 9-25-80	8.09 4.27
Coal Creek at mouth, at campground, near Jackson, WY	Little Granite Creek	Lat 43°19'00", long 110°30'15", in SW¼NE¼NE¼ sec.27, T.39 N., R.114 W., Teton County, Teton National Forest, at bridge on private road, at campground, 0.2 mile upstream from mouth, and 16.3 miles southeast of Jackson.	3.7		8-19-80 9-25-80	2.01 1.15
Little Granite Creek above Boulder Creek, near Jackson, WY	Granite Creek	Lat 43°18'41", long 110°30'14", in NE¼NE¼SE¼ sec.27, T.39 N., R.114 W., Teton County, Teton National Forest, 0.1 mile upstream from Boulder Creek, and 16.5 miles southeast of Jackson.	11.9		8-19-80 9-25-80	8.79 4.55
Boulder Creek at mouth, near Jackson, WY	Little Granite Creek	Lat 43°18'40", long 110°30'13", in NE¼NE¼SE¼ sec.27, T.39 N., R.114 W., Teton County, Teton National Forest, 0.1 mile upstream from mouth, and 16.6 miles southeast of Jackson.	8.0		8-19-80 9-25-80	3.38 1.59
Little Granite Creek at mouth, near Jackson, WY	Granite Creek	Lat 43°17'51", long 110°31'02", in NE¼NW¼SW¼ sec.34, T.39 N., R.114 W., Teton County, Teton National Forest, 0.1 mile upstream from mouth, and 16.8 miles southeast of Jackson.	21.2		8-19-80 9-25-80	11.9 7.86

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09196500 PINE CREEK ABOVE FREMONT LAKE, WY (LAT 43 01 50 LONG 109 46 10)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
MAY 20...	1553	221	7.0	8	1	2.8	.3	.5	.1	7	1.5
JUN 02...	1525	231	5.0	7	2	2.6	.1	.6	.1	5	1.4

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	PHOS-PHORUS, TOTAL (MG/L AS P)
MAY 20...	.3	.0	2.3	.06	.010	.07	.02	.000	.00	.010
JUN 02...	.3	.0	2.5	.05	.000	.05	.03	.060	.07	.010

DATE	PHOS-PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS PO4)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	PHOS-PHORUS, ORTHOPH OSPHATE TOTAL (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BORON, DIS-SOLVED (UG/L AS B)	CADMIUM DIS-SOLVED (UG/L AS CD)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, DIS-SOLVED (UG/L AS CU)
MAY 20...	.09	.03	.030	0	6	<1	7	<1	<3	<10
JUN 02...	.55	.03	.180	1	9	<1	10	<1	<3	<10

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, DIS-SOLVED (UG/L AS ZN)
MAY 20...	12	<10	<4	<1	.0	<10	0	15	<6.0	<3
JUN 02...	<10	<10	<4	<1	.0	<10	0	11	<6.0	<3

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Cache Creek at Game Creek Trail, near Jackson, WY	Flat Creek	Lat 43°26'24", long 110°40'04", T.40 N., R.115 W., Teton County, Teton National Forest, at Game Creek Trail crossing, 0.3 mile upstream from unnamed tributary, and 4.7 miles southeast of Jackson.	6.2		8-20-80 9-23-80	7.01 4.48
Game Creek at end of road, near Jackson, WY	Flat Creek	Lat 43°25'24", long 110°42'06", T.40 N., R.116 W., Teton County, Teton National Forest, 2.9 miles southeast of Jackson, and 3.0 miles upstream from mouth.	4.9		8-20-80 9-23-80	1.59 1.27
Game Creek near Jackson, WY	Flat Creek	Lat 43°23'48", long 110°42'47", in NE¼SE¼SE¼ sec.26, T.40 N., R.116 W., Teton County, Teton National Forest, 1.9 miles upstream from mouth, and 5.7 miles southeast of Jackson.	9.2		8-20-80 9-23-80	.98 .26
Horse Creek above Little Horse Creek, near Jackson, WY	Snake River	Lat 43°21'08", long 110°40'47", in NW¼NE¼NE¼ sec.18, T.39 N., R.115 W., Teton County, Teton National Forest, 400 feet upstream from culvert on private road, 2.9 miles upstream from mouth, and 2.9 miles southeast of Jackson.	23.9		8-21-80 9-24-80	8.76 7.83
Little Horse Creek near Jackson, WY	Snake River	Lat 43°20'28", long 110°40'57", in NW¼SE¼SE¼ sec.18, T.39 N., R.115 W., Teton County, Teton National Forest, 0.8 mile upstream from mouth, and 9.8 miles southeast of Jackson.	10.7		8-21-80 9-24-80	1.07 .65
Little Granite Creek above Coal Creek, at campground, near Jackson, WY	Granite Creek	Lat 43°19'00", long 110°30'14", in SW¼NE¼NE¼ sec.27, T.39 N., R.114 W., Teton County, Teton National Forest, 300 feet upstream from mouth, and 16.4 miles southeast of Jackson.	8.0		8-19-80 9-25-80	8.09 4.27
Coal Creek at mouth, at campground, near Jackson, WY	Little Granite Creek	Lat 43°19'00", long 110°30'15", in SW¼NE¼NE¼ sec.27, T.39 N., R.114 W., Teton County, Teton National Forest, at bridge on private road, at campground, 0.2 mile upstream from mouth, and 16.3 miles southeast of Jackson.	3.7		8-19-80 9-25-80	2.01 1.15
Little Granite Creek above Boulder Creek, near Jackson, WY	Granite Creek	Lat 43°18'41", long 110°30'14", in NE¼NE¼SE¼ sec.27, T.39 N., R.114 W., Teton County, Teton National Forest, 0.1 mile upstream from Boulder Creek, and 16.5 miles southeast of Jackson.	11.9		8-19-80 9-25-80	8.79 4.55
Boulder Creek at mouth, near Jackson, WY	Little Granite Creek	Lat 43°18'40", long 110°30'13", in NE¼NE¼SE¼ sec.27, T.39 N., R.114 W., Teton County, Teton National Forest, 0.1 mile upstream from mouth, and 16.6 miles southeast of Jackson.	8.0		8-19-80 9-25-80	3.38 1.59
Little Granite Creek at mouth, near Jackson, WY	Granite Creek	Lat 43°17'51", long 110°31'02", in NE¼NW¼SW¼ sec.34, T.39 N., R.114 W., Teton County, Teton National Forest, 0.1 mile upstream from mouth, and 16.8 miles southeast of Jackson.	21.2		8-19-80 9-25-80	11.9 7.86

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09196500 PINE CREEK ABOVE FREMONT LAKE, WY (LAT 43 01 50 LONG 109 46 10)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
MAY											
20...	1553	221	7.0	8	1	2.8	.3	.5	.1	7	1.5
JUN											
02...	1525	231	5.0	7	2	2.6	.1	.6	.1	5	1.4

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS NH4)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY										
20...	.3	.0	2.3	.06	.010	.07	.02	.000	.00	.010
JUN										
02...	.3	.0	2.5	.05	.000	.05	.03	.060	.07	.010

DATE	PHOSPHORUS, ORTHOPHOSPHATE TOTAL (MG/L AS PO4)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE TOTAL (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	BORON, DISSOLVED (UG/L AS B)	CADMIUM DISSOLVED (UG/L AS CD)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)
MAY										
20...	.09	.03	.030	0	6	<1	7	<1	<3	<10
JUN										
02...	.55	.03	.180	1	9	<1	10	<1	<3	<10

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, DISSOLVED (UG/L AS SE)	STRONTIUM, DISSOLVED (UG/I AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, DISSOLVED (UG/L AS ZN)
MAY										
20...	12	<10	<4	<1	.0	<10	0	15	<6.0	<3
JUN										
02...	<10	<10	<4	<1	.0	<10	0	11	<6.0	<3

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

GREEN RIVER BASIN

09258200 DRY COW CREEK NEAR BAGGS, WY (LAT 41 20 24 LONG 107 40 14)

DATE	TIME	TEMPER-ATURE, WATER (DEG C)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM	SED. SUSP. FALL DIAM. % FINER THAN .016 MM	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. FALL DIAM. % FINER THAN .125 MM	SED. SUSP. FALL DIAM. % FINER THAN .250 MM
APR 24...	0850	3.5	60	79	94	98	100

SNAKE RIVER MAIN STEM

13011000 SNAKE RIVER NEAR MORAN, WY (LAT 43 51 31 LONG 110 35 09)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT 10...	1500	229	188	15.0
NOV 20...	1309	215	131	9.0
JAN 08...	1444	229	158	1.0
FEB 20...	1500	237	172	5.5
APR 17...	1340	443	210	2.5
JUN 18...	1619	4800	159	11.0
AUG 15...	1500	1690	148	14.0

PACIFIC CREEK BASIN

13011500 PACIFIC CREEK AT MORAN, WY (LAT 43 51 04 LONG 110 30 59)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT 10...	1430	43	277	9.5
NOV 20...	1157	56	171	1.5
JAN 08...	1329	77	178	.0
FEB 20...	1220	58	257	1.0
APR 17...	1228	53	196	6.5
JUN 18...	1430	862	118	12.0
AUG 15...	1235	88	144	13.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

BUFFALO FORK BASIN

13011900 BUFFALO FORK ABOVE LAVA CREEK NEAR MORAN, WY (LAT 43 50 14 LONG 110 26 21)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, WATER (DEG C)
OCT 10...	1100	159	244	5.0
NOV 20...	0915	126	173	1.5
JAN 08...	1000	93	128	.0
FEB 20...	0948	123	271	.5
APR 17...	1020	141	206	4.5
JUN 18...	1024	2160	104	7.5
AUG 15...	1100	305	157	10.0

SNAKE RIVER BASIN

432624110400401 CACHE CREEK AT GAME CREEK TRAIL, NEAR JACKSON, WY (LAT 43 26 24 LONG 110 40 04)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
SEP 23...	0830	4.5	260	8.3	4.0	9.8	160	11	43	13	2.3

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
SEP 23...	.1	.6	150	3.1	2.6	.1	4.3	171	159	.22

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS P)	PHOS-PHORUS, ORTHOPH OSPHATE DISSOL. (MG/L AS PO4)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP 23...	1.93	.01	.02	.030	.09	.000	.00	26	.32	9

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SNAKE RIVER BASIN

432524110420601 GAME CREEK AT END OF ROAD, NEAR JACKSON, WY (LAT 43 25 24 LONG 110 42 06)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
SEP											
23...	1415	1.3	463	8.3	6.5	10.5	330	140	85	29	3.5

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
SEP										
23...	.1	.5	190	130	1.0	.1	9.4	404	373	.51

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP										
23...	1.31	.00	.00	.050	.15	.010	.03	32	.11	66

432348110424701 GAME CREEK NEAR JACKSON, WY (LAT 43 23 48 LONG 110 42 47)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
SEP												
23...	1230	.26	606	8.4	7.0	9.7	<1	K2	44	410	200	110

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
SEP												
23...	32	3.7	.1	1.0	200	190	1.5	.1	9.1	541	466	.63

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)	CYANIDE TOTAL (MG/L AS CN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP											
23...	.33	.00	.00	.050	.15	.010	.03	.00	26	.02	52

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
SEP										
23...	1230	2	1	1	0	0	50	<1	0	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SNAKE RIVER BASIN

432348110424701 GAME CREEK NEAR JACKSON, WY (LAT 43 23 48 LONG 110 42 47)--Continued

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)
SEP										
23...	0	0	0	<3	4	<10	260	<10	2	<10

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)
SEP									
23...	15	20	20	4	.0	.0	.0	<10	1

DATE	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
SEP									
23...	0	1	0	0	0	900	<6.0	40	<3

SNAKE RIVER MAIN STEM

13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY (LAT 43 22 20 LONG 110 44 17)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
OCT				
09...	1449	1350	314	11.5
NOV				
19...	1529	1290	222	5.0
JAN				
07...	1600	958	198	.0
FEB				
19...	1630	1230	300	5.5
APR				
16...	1325	1590	222	9.0
JUN				
19...	1140	11500	175	12.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SNAKE RIVER BASIN

432108110404701 HORSE CREEK ABOVE LITTLE HORSE CREEK, NEAR JACKSON, WY (LAT 43 21 08 LONG 110 40 47)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
SEP 24...	1015	7.8	326	8.3	4.5	10.3	K4	<1	40	190	79	54

K-Results based on colony count outside the acceptable range (non-ideal colony count).

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
SEP 24...	13	2.0	.1	.8	110	84	.8	.2	5.7	226	227	.31

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)	CYANIDE TOTAL (MG/L AS CN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP 24...	4.78	.00	.00	.030	.09	.000	.00	.00	6	.13	79

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
SEP 24...	1015	2	1	1	0	0	50	<1	0	<1

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)
SEP 24...	0	0	0	<3	8	<10	100	<10	3	<10

DATE	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)
SEP 24...	9	10	9	1	.0	.0	.0	<10	1

DATE	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
SEP 24...	0	1	0	0	0	330	<6.0	20	<3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES IN WYOMING

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SNAKE RIVER BASIN

432028110405701 LITTLE HORSE CREEK NEAR JACKSON, WY (LAT 43 20 28 LONG 110 40 57)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
SEP											
24...	0900	.65	450	8.1	6.5	9.2	280	53	72	25	3.5

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
SEP										
24...	.1	1.2	230	51	2.2	.2	12	305	305	.41

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP										
24...	.54	.00	.00	.070	.21	.020	.06	51	.09	65

431900110301401 LITTLE GRANITE CREEK ABOVE COAL CREEK, AT CAMPGROUND, NEAR JACKSON, WY (LAT 43 19 00 LONG 110 30 14)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
SEP											
25...	0930	4.3	314	8.3	2.0	11.0	180	0	54	11	3.0

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
SEP										
25...	.1	1.0	180	11	.5	.1	4.5	207	193	.26

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP										
25...	2.24	.00	.00	.010	.03	.000	.00	12	.14	85

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SNAKE RIVER BASIN

431900110301501 COAL CREEK AT MOUTH, AT CAMPGROUND, NEAR JACKSON, WY (LAT 43 19 00 LONG 110 30 15)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
SEP											
25...	0830	1.2	660	8.4	2.0	10.8	420	230	130	23	4.8

DATE	SODIUM AD-SORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
SEP										
25...	.1	1.0	190	250	.6	.1	6.2	535	530	.72

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP										
25...	1.72	.00	.00	.020	.06	.000	.00	24	.08	64

431841110301401 LITTLE GRANITE CREEK ABOVE BOULDER CREEK, NEAR JACKSON, WY (LAT 43 18 41 LONG 110 30 14)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP									
25...	1100	4.6	394	8.4	3.0	11.1	6	.07	68

431840110301301 BOULDER CREEK AT MOUTH, NEAR JACKSON, WY (LAT 43 18 40 LONG 110 30 13)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
SEP											
25...	1115	1.6	348	8.3	4.0	11.4	200	0	56	14	3.5

DATE	SODIUM AD-SORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
SEP										
25...	.1	.7	200	5.2	.8	.1	4.0	218	205	.28

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP										
25...	.89	.00	.00	.010	.03	.000	.00	14	.06	78

WATER-QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

SNAKE RIVER BASIN

431751110310201 LITTLE GRANITE CREEK AT MOUTH, NEAR JACKSON, WY (LAT 43 17 51 LONG 110 31 02)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
SEP 25...	1300	7.9	384	8.3	6.5	10.1	<1	<1	38	220	35	63

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)
SEP 25...	14	3.6	.1	.9	180	45	.6	.1	4.4	222	240	.33

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)	CYANIDE TOTAL (MG/L AS CN)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
SEP 25...	5.12	.19	.00	.010	.03	.000	.00	.00	24	.51	86

DATE	TIME	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)
SEP 25...	1300	2	2	0	100	0	110	<1	0	<1

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)
SEP 25...	0	0	0	<3	11	<10	90	<10	4

DATE	LEAD, DISSOLVED (UG/L AS PB)	LITHIUM DISSOLVED (UG/L AS LI)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	MOLYBDENUM, DISSOLVED (UG/L AS MO)	SELENIUM, TOTAL (UG/L AS SE)
SEP 25...	<10	<4	0	<1	.0	.0	.0	<10	0

DATE	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	STRONTIUM, DISSOLVED (UG/L AS SR)	VANADIUM, DISSOLVED (UG/L AS V)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
SEP 25...	0	0	0	0	0	300	<3.0	20	<3

SNAKE RIVER BASIN

431722110375701 STINKING SPRINGS NEAR HOBACK JUNCTION, WY (LAT 43 17 22 LONG 110 37 57)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
SEP									
24...	1300	E1.5	1520	7.2	8.0	1.8	870	710	250

E-Estimate.

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
SEP									
24...	60	3.0	.0	1.0	160	710	.7	1.1	6.3

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS P)	PHOSPHORUS, ORTHOPHOSPHATE DISSOL. (MG/L AS PO4)
SEP									
24...	1230	1130	1.54	.05	.03	.020	.06	.000	.00

GREYS RIVER BASIN

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY (LAT 43 08 35 LONG 110 58 34)

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, WATER (DEG C)
OCT				
09...	0900	275	350	6.0
NOV				
19...	1055	245	339	-.7
JAN				
07...	1111	175	172	.0
FEB				
19...	1230	193	--	1.5
APR				
15...	1322	282	331	5.0
JUN				
20...	1045	2300	289	7.0
AUG				
16...	1347	597	348	12.0

CARBON COUNTY

414650107254501. Local number, 21N 089W 22ada01.
LOCATION.--Lat 41°46'50", long 107°25'45", in NE¼SE¼NE¼ sec.22, T.21 N., R.89 W., Hydrologic Unit 14040200.
Owner: U.S. Bureau of Land Management.
AQUIFER.--Fort Union Formation.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 4 in (10 cm), depth 156 ft (47.5 m), cased.
DATUM.--Altitude of land-surface datum is about 6,705 ft (2,044 m). Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.
PERIOD OF RECORD.--July 1963, April 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 35.17 ft (10.72 m) below land-surface datum, Feb. 16, 1979; lowest, 49.80 ft (15.18 m) below land-surface datum, July 17, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL
JAN 16	37.79
JUL 17	49.80

LINCOLN COUNTY

415557110571502. Local number, 23N 119W 32bda02.
LOCATION.--Lat 41°55'57", long 110°57'15", in NE¼SE¼NW¼ sec.32, T.23 N., R.119 W., Hydrologic Unit 16010101.
Owner: Thornock Bros.
AQUIFER.--Terrace deposits of Bear River.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (41 cm), depth 230 ft (70.1 m), cased.
DATUM.--Altitude of land-surface datum is about 6,211 ft (1,893 m). Measuring point: Top of casing, 0.40 ft (0.12 m) above land-surface datum.
PERIOD OF RECORD.--April 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.48 ft (3.80 m) below land-surface datum, Aug. 9, 1972; lowest, 32.14 ft (9.80 m) below land-surface datum, Mar. 6, 1978.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL
NOV 2	26.40
MAR 24	26.97

420202110560201. Local number, 24N 119W 28aca01.
LOCATION.--Lat 42°02'02", long 110°56'02", in NE¼SW¼NE¼ sec.28, T.24 N., R.119 W., Hydrologic Unit 16010102.
Owner: Herman Teichert.
AQUIFER.--Terrace deposits of Bear River.
WELL CHARACTERISTICS.--Drilled irrigation water-table well, diameter 16 in (41 cm), depth 230 ft (70.1 m), cased, perforated 0-220 ft (0-67.1 m).
DATUM.--Altitude of land-surface datum is about 6,195 ft (1,888 m). Measuring point: Hole inside east side of pump shell, 0.20 ft (0.06 m) above land-surface datum.
PERIOD OF RECORD.--April 1962 to current year.
REVISED RECORDS.--WDR WY-79-2: 1977 (lowest water level).
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.44 ft (2.88 m) below land-surface datum, July 9, 1971; lowest, 20.78 ft (6.33 m) below land-surface datum, Jan. 3, 1977.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL
NOV 2	13.99
MAR 24	17.49

SUBLETTE COUNTY

423504110053001. Local number, 30N 111W 17aca01.
LOCATION.--Lat 42°35'04", long 110°05'30", in NE¼SW¼NE¼ sec.17, T.30 N., R.111 W., Hydrologic Unit 14040101.
Owner: Sublette County.
AQUIFER.--Wasatch Formation.
WELL CHARACTERISTICS.--Drilled public-service artesian well, diameter 8 in (20 cm), depth 435 ft (132.6 m), cased.
DATUM.--Altitude of land-surface datum is about 6,880 ft (2,097 m). Measuring point: Hole in board over casing, 6.00 ft (1.83 m) below land-surface datum.
PERIOD OF RECORD.--April 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.13 ft (5.53 m) below land-surface datum, Aug. 6, 1971; lowest, 23.01 ft (7.01 m) below land-surface datum, Mar. 19, 1980.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL
NOV 6	22.31
MAR 19	23.01

SUBLETTE COUNTY--Continued

430118110071001. Local number, 35N 111W 08adb01.
LOCATION.--Lat 43°01'18", long 110°07'10", in NW¼SE¼NE¼ sec.8, T.35 N., R.111 W., Hydrologic Unit 14040101.
Owner: U.S. Geological Survey.
AQUIFER.--Alluvium.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1 in (3 cm), depth 39 ft (11.9 m), slotted pipe 30-39 ft (9.1-11.9 m).
DATUM.--Altitude of land-surface datum is about 7,500 ft (2,286 m). Measuring point: Top of pipe, 3.00 ft (0.91 m) above land-surface datum.
PERIOD OF RECORD.--April 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.65 ft (1.42 m) below land-surface datum, Apr. 27, 1965; lowest, 7.05 ft (2.15 m) below land-surface datum, July 25, 1966.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL
NOV 6	6.35
MAR 19	6.15

UINTA COUNTY

411600110243301. Local number, 15N 115W 20cba01.
LOCATION.--Lat 41°16'00", long 110°24'33", in NE¼NW¼SW¼ sec.20, T.15 N., R.115 W., Hydrologic Unit 14040107.
Owner: School District.
AQUIFER.--Alluvium of terrace along Blacks Fork.
WELL CHARACTERISTICS.--Dug unused water-table well, diameter 24 in (61 cm), depth 17 ft (5.2 m), cased with tile.
DATUM.--Altitude of land-surface datum is about 6,940 ft (2,115 m). Measuring point: Top of concrete cover, 1.00 ft (0.30 m) above land-surface datum.
PERIOD OF RECORD.--April 1957 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.10 ft (0.03 m) above land-surface datum, June 5, 1973, July 10, 1974; lowest, 11.47 ft (3.50 m) below land-surface datum, Mar. 1, 1978.
REVISIONS.--The highest water level has been revised to 0.10 ft (0.03 m) below land-surface datum, June 5, 1973, superceding the figure published in 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL
NOV 1	6.51
MAR 18	9.10

412248111020301. Local number, 16N 121W 11acc01.
LOCATION.--Lat 41°22'48", long 111°02'03", in SW¼SW¼NE¼ sec.11, T.16 N., R.121 W., Hydrologic Unit 16010101.
Owner: Elwin Sessions.
AQUIFER.--Terrace deposits.
WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 48± in (122± cm), depth 34 ft (10.4 m), cribbed with rock.
DATUM.--Altitude of land-surface datum is about 6,575 ft (2,004 m). Measuring point: Top of corrugated casing, 3.30 ft (1.01 m) above land-surface datum (since Mar. 4, 1970).
PERIOD OF RECORD.--November 1955 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.19 ft (3.72 m) below land-surface datum, June 8, 1970; lowest, 29.12 ft (8.88 m) below land-surface datum, Mar. 15, 1973.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	WATER LEVEL
NOV 5	24.99
MAR 21	24.68

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